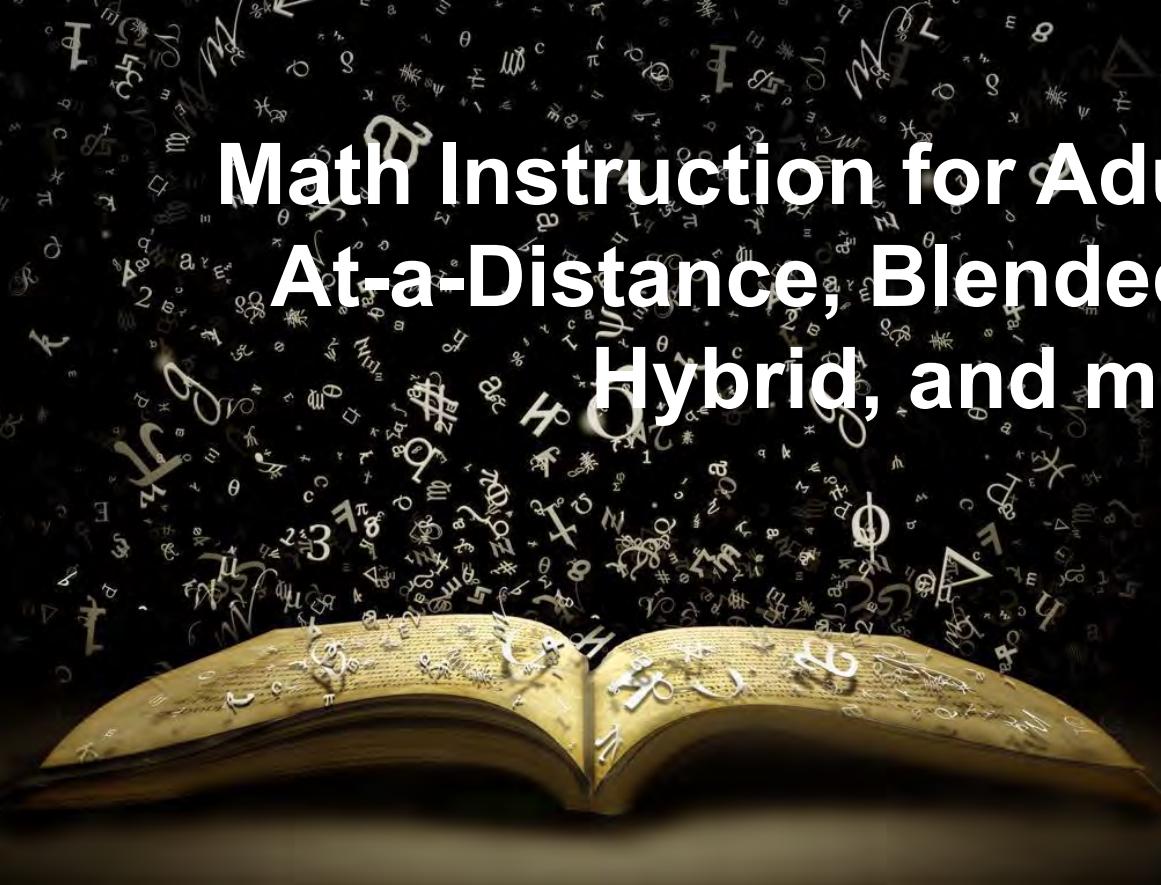


Math Instruction for Adult Learners: At-a-Distance, Blended Learning, Hybrid, and more



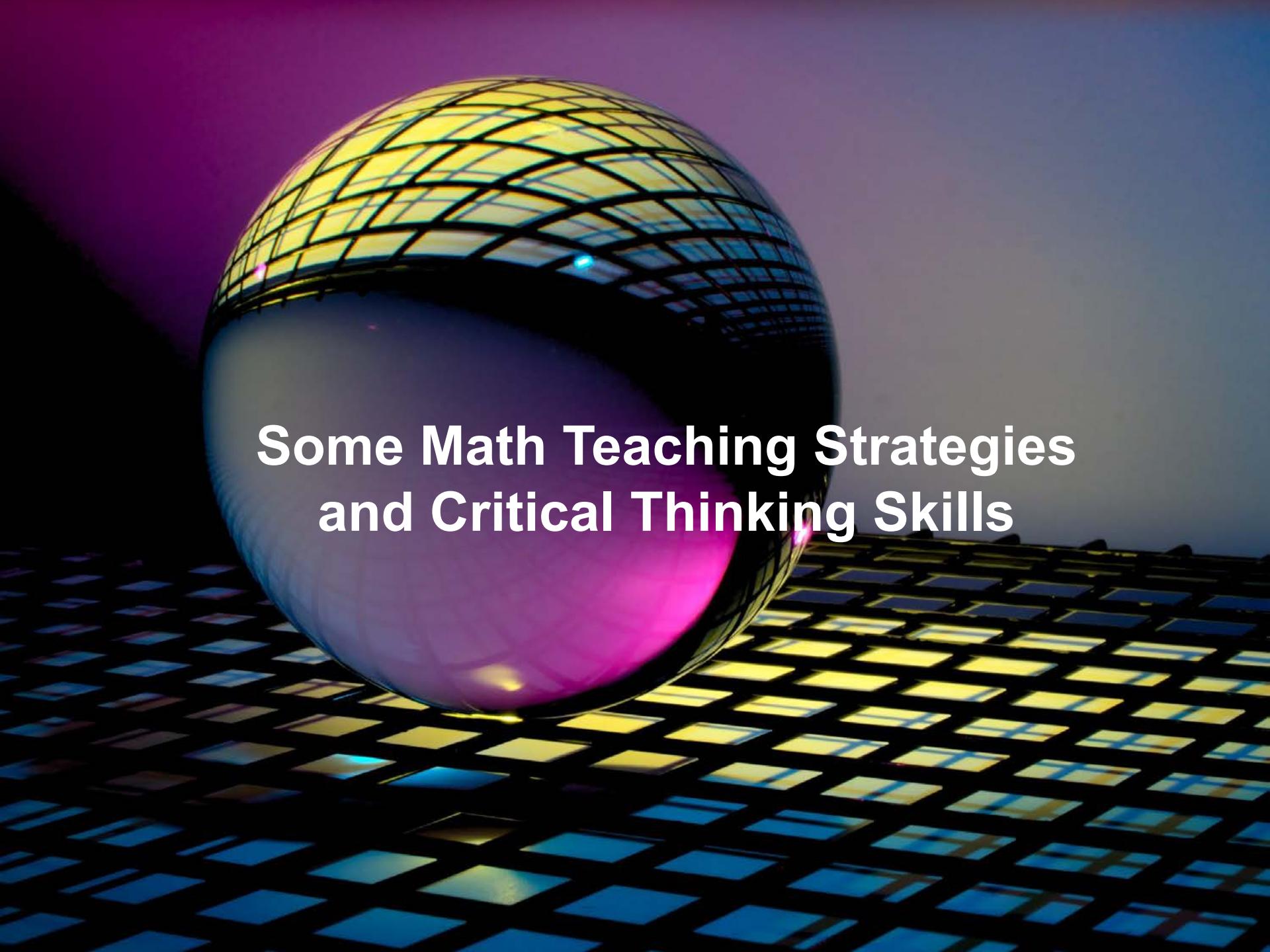
Presenter: Michael Matos, Technology Project Manager
Chicago Citywide Literacy Coalition

matosmichael2@gmail.com



Agenda

- Some Math Teaching Strategies and Critical Thinking Skills
- Math Real World Situations - Workplace
- Math Website and App Ideas - Workplace
- Math Real World Situations - Workplace Healthcare Homemade Activities
- Math Real World Situations - Science Tables, Charts and more Homemade Activities
- Math - Riddles, Numeracy, and Word Problems Homemade Activities
- Math Website and App Ideas - Geometry and more
- Math Real World Situations - “How Much Material Do I Need” Homemade Activities
- Math Real World Situations - Tables, Formulas, Conversions Homemade Activities
- Math Real World Situations - Money, Financial Literacy Homemade Activities
- Math Games - Homemade Activities
- Math Games and GameShow Website and App Ideas - Various
- Other Math Website and App Ideas - Various

A large, glowing sphere with a grid pattern of yellow and blue light emanating from its top half, resting on a reflective surface with a grid pattern.

Some Math Teaching Strategies and Critical Thinking Skills

Some Math Teaching Strategies

- 1. You are trying to make numbers come to life for your learners.**
- 2. Accelerated or individualized math: a system of having students work at different levels individually in one classroom.**
- 3. Base your instruction in your learner's' real world experience: involving all aspects of an adult's life, including education, family, neighborhood, employment, and community, in teaching the child useful life and educational skills.**



Some Math Teaching Strategies Cont.

4. **Building vocabulary:** Use brief, random, and recurrent assessments to help students build basic subject-specific vocabulary and also gauge student retention of subject-specific vocabulary. Review mathematical vocabulary and concepts using math games. Online Student developed glossaries, word list, or word wall can be used; where students keep track of key content and concept words and define them in a log or series of worksheets that they keep with their text to refer to.
5. **Design multi-sensory lessons:** Activities that address various student learning styles; i.e., visual, auditory, tactile, and kinesthetic.

Some Math Teaching Strategies Cont.

5. **Integrate educational technology:** tools, i.e., online tools, interactive Google and Office documents, online math websites, and interactive computer games
6. **Manipulative use when teaching math is important:** Physical or virtual manipulative help learners visualize the numbers and remember as much as possible.
7. **Problem solving instruction:** explicit instruction in the steps to solving a mathematical or science problem including understanding the question, identifying relevant and irrelevant information, choosing a plan to solve the problem, solving it, and checking answers.

Some Math Teaching Strategies Cont.

8. **Reinforcing math skills through games:** Using online games and Gameshow Apps to follow-up a lesson in order to reinforce learned skills and use the skills in another context.
9. **Student generated word problems:** Have students create word problems for a specific math skill. Through the construction of a problem the students learn what to look for when solving word problems they are assigned. Students learn to understand the setup of a mathematical situation. Maybe have students collaborate with Google Docs and Google Classroom.

Some Math Teaching Strategies Cont.

10. **Using Graphic Organizers:** employing visual displays to organize information into things like trees, flowcharts, webs, etc. Help students to consolidate information into a meaningful whole and they are used to improve comprehension of stories, organization of writing, and understanding of difficult concepts in word problems. Use visuals whenever possible to reinforce auditory instruction, i.e., charts, graphs, manipulatives (hands-on or virtual), diagrams, models, real objects.



Math Critical Thinking Skills

- Understand Central Ideas and Supporting Information
 - Summarize Ideas
 - Make Generalizations Based on Evidence
 - Follow a Sequence
 - Interpret Cause and Effect
 - Draw Conclusions
 - Compare and Contrast Ideas
 - Evaluate Relevance of Information
 - Determine the Purpose of a Text
 - Interpret Charts and Tables
-
- Use Bar Graphs to Make Comparisons
 - See Trends in Line Graphs
 - Relate Parts of a Whole in Circle Graphs
 - Work with Data / Probability
 - Figure Out Diagrams/Maps
 - Find Range, Mean, Median, Mode
 - Determine the Probability of Single Event
 - Determine the Probability of Dependent Events
 - Use the Calculator with Data

1. Measurement and calculation:

Skills used to measure and describe the physical world, for example by taking measurements and calculating area and volume.

2. Money math:

Skills used in paying and receiving money on the job, for example in handling cash, making change, preparing bills or making payments.

3. Scheduling, budgeting and accounting:

Skills used to manage time and money, for example in planning and keeping track of how you use your time and money, in choosing the products or services that offer the best value and in using your time and money wisely.

4. Data analysis:

Skills used to solve problems by analyzing and numerical data.





Math Real World Situations - Workplace

The Inability to Recode Real World Situations into Math Persists through all Levels of Education.

Changing work practices generate new demands for mathematical skills, particularly in efficiency, innovation, quality and continuous improvement.



‘judgement’ or ‘problem solving’ procedures

Mathematics is applied in both routine and complex tasks requiring sophisticated use of fundamental mathematical skills.

Example: Mathematical demands may be present implicitly in the workplace tasks, often through tasks that are not obviously mathematical.

Math skills needed in the workplace contain:

- **extraneous information to sort through.**
- **rearranging of information required to get to the answer.**
- **chained steps. Sequencing is important.**



**In sum:
Workplace Math is “critical thinking,” as applied to math.**



Math foundation skills and Workplace examples

Math foundation skills		Workplace examples
Whole numbers e.g.: 3, 14	Read, write, count, round off, add, subtract, multiply and divide whole numbers.	<ul style="list-style-type: none">• Order supplies.• Take stock inventory.• Count parts.• Read serial numbers.
Integers e.g.: -5, 0, 11	Read, write, add, subtract, multiply and divide integers.	<ul style="list-style-type: none">• Read temperatures.• Use survey tools.• Set up computer numerical control programs.• Measure air pressure.
Fractions e.g.: $1/8$, $1/4$	Read, write, round off, add, subtract, multiply or divide fractions. Multiply or divide by a fraction.	<ul style="list-style-type: none">• Take and record imperial measurements.• Determine tool or material sizes.• Calculate quantities.
Decimals e.g.: 8.50, 0.00375	Read, write, round off, add or subtract, multiply or divide decimals. Multiply or divide by a decimal.	<ul style="list-style-type: none">• Handle money.• Take and record metric measurements.• Measure tolerances.• Select tool sizes.

Math foundation skills	Workplace examples
Percentages e.g.: 15%, 55%	<p>Read and write percentages.</p> <p>Calculate the percentage one number is of another.</p> <p>Calculate a percentage of a number.</p> <ul style="list-style-type: none"> • Calculate tax. • Read and write tolerances. • Adjust machine loads. • Describe in terms of a proportion of maximum capacity or an amount of progress towards completion.
Equivalent numbers e.g.: $1/2 = 0.5 = 50\%$	<p>Convert between fractions, decimals and percentages.</p> <ul style="list-style-type: none"> • Convert decimal readings on gauges to percent of output. • Convert decimals to fractions to select the correct part or size of tool. • Convert quantities of ingredients to decimals to calculate cost.
Other real numbers e.g.: $\sqrt{36}$, 9^2 , 2.2×10^3 , π	<p>Use square roots, powers, scientific notation and significant digits.</p> <ul style="list-style-type: none"> • Calculate power and current in three-phase motors. • Use square roots to calculate dimensions for a staircase. • Use powers to express the volume of tanks.
Equations and formulas	<p>Solve problems using equations with one unknown quantity. Use formulas by inserting quantities. Solve quadratic equations.</p> <ul style="list-style-type: none"> • Determine where to place holes. • Calculate the correct angles for rigging loads. • Set food prices. • Use Ohm's law to check motor voltage.

Math foundation skills	Workplace examples
Rates, ratios and proportions	<p>Use a rate comparing two quantities with different units.</p> <p>Use a ratio comparing two quantities with the same units.</p> <p>Use a proportion comparing two ratios or rates.</p>
Measurement conversions	<p>Convert between customary and metric (SI) measurements.</p> <p>Convert to another unit within a measurement system.</p> <p>Convert between measurement systems or between units in one system, e.g. ft² to yd², yd³ to m³</p>
Areas, perimeters and volumes	<p>Calculate areas, perimeters and volumes. Calculate areas and volumes of shapes that are simple composites of simple, familiar shapes</p>
Geometry	<p>Apply geometric concepts such as parallelism, perpendicularity and tangents.</p>

Math foundation skills		Workplace examples
Trigonometry	<p>Use trigonometry to determine the size of an unknown side or angle of a triangle.</p>	<ul style="list-style-type: none"> • Calculate angles for a circular staircase. • Place holes on a part. • Make bolt patterns for drilling or machine installation. • Find offsets.
Summary calculations	<p>Calculate averages and rates other than percentages, proportions or ratios.</p> <p>Calculate quantities of materials.</p>	<p>Calculate averages for:</p> <ul style="list-style-type: none"> • fuel or power consumption; • tool lifespan; • speed and feed rates; • material production; and • time needed to perform tasks.
Statistics and probability	<p>Use statistics and probability to draw conclusions. Estimate quantities of materials.</p>	<ul style="list-style-type: none"> • Estimate how much of something clients use. • Predict sales trends. • Determine the probability of equipment and parts failure. • Describe the progress of fabrication and installation tasks.

The background of the slide features a series of thick, diagonal stripes. The stripes are primarily a dark blue color, with some lighter blue and white highlights along their edges, giving them a metallic or polished appearance. They are set against a solid red background on the right side of the frame. The stripes are oriented diagonally from the top-left towards the bottom-right.

Math Website and App Ideas - Workplace

Math in The Workplace/Careers

Math Apprentice

<https://www.mathapprentice.com/>

MATH APPRENTICE

Math is the path to anything you want to be.

The graphic features a large circle divided into four quadrants by a horizontal and vertical axis. The top-left quadrant contains 'BICYCLE DESIGNER' (green), 'BIOLOGIST' (purple), 'INVENTOR' (red), and 'ARCHITECT' (green). The top-right quadrant contains 'MECHANIC' (red), 'ARTIST' (yellow), 'SPORTSCASTER' (grey), and 'ENGINEER' (blue). The bottom-left quadrant contains 'PROGRAMMER' (blue), 'DOCTOR' (pink), and 'VETERINARIAN' (red). The bottom-right quadrant contains 'ASTRONOMER' (purple), 'GAME DESIGNER' (pink), 'CHEF' (yellow), and 'METEOROLOGIST' (yellow).

Guide to Using Math Apprentice in the Middle School Classroom

[Home](#) [Explore the Math](#) [About the Project](#) [Contact Us](#)

Math in The Workplace/Careers

SkillsOneTV

<http://www.skillsone.com.au/vidgallery/math-in-hairdressing/>

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- ElectroComms & Energy Utilities
- Government Skills
- Heating, Ventilation & Air Conditioning
- Hospitality, Tourism & Services

04:56

Math in The Workplace/Careers

Khake Vocational Math

<http://www.khake.com/page56.html>

VOCATIONAL
INFORMATION CENTER

Math on the Job - How you use Math at Work

Math Resources for Career and Technical Education focusing on how math is used by specific technical careers. Additional Math resources for formulas, tutorials, money, financial literacy, math tools, history of math, and specific math disciplines are found on the [Math Education Resources](#) page.

[*Home](#) [*Careers](#) [*Skills](#) [*Schools](#) [*Job Market](#) [*Educators](#) [*Reference](#) [*Search](#) [*Index](#) [*Site Map](#) [*About](#)

How Math is Used on the Job

[Algebra in the Real World - Videos](#)
[Careers with Maths Library](#)
[Exactly How is Math Used in Technology](#)
[Examining How Math is Used in the Workplace](#)
[Math in Careers Database - Math Needed on the Job](#)
[Math in Technology - Sample Problems](#)
[Math in the Workplace](#)
[Math in the Workplace - Sample Problems](#)
[Math Technology Integration](#)
[Mathematics and Elections](#)
[Mathematics Discoveries - NSF](#)
[Mathletics - Math in Sports](#)
[Measurement - How am I ever going to use this stuff](#)
[Plus Magazine - Practical Applications of Mathematics](#)
[Practical Uses of Math and Science](#)
[Real People - Math They Use on the Job Videos](#)
[Real People - Using Algebra on the Job - Videos](#)
[Math at Work Brochures](#)
[Why Must I learn Math](#)

Applied Academics Lesson Plans

[Applied Academic Problems in a Work Context](#)
[Applied Academics - Lessons linked to Math and Occupations](#)
[Applied Math Basics](#)
[Applied Mathematics - PBS Teachers](#)
[Mega Math -Math Activities](#)
[Practical and Applied Arts Curriculum and Lessons](#)
[Vocational and Career Lesson Plans](#)

Using Math Every Day - Consumer Math

[Career and Consumer Math](#)
[Consumer Products in Metric Sizes](#)
[Everyday Math](#)
[Everyday Uses of Math Lessons](#)
[Figuring a Tip](#)
[Loans - Amortization Schedule Activity](#)
[Math in Daily Life](#)

Math in The Workplace/Careers

Micron Math in the Workplace

<https://www.micron.com/foundation/educators/k12-educators/math-in-the-workplace>

The screenshot shows the 'Math in the Workplace' page from the Micron website. At the top, there's a navigation bar with the Micron logo, a search bar, and links for Products, Solutions, Support, and About. Below the navigation, a breadcrumb trail shows the path: Home > Micron Foundation > Educator Resources > K-12 Educator Resources > Math in the Workplace. To the right of the breadcrumb are social sharing buttons for ADD, EMAIL, g+, in, Twitter, and f. The main title 'Math in the Workplace' is displayed prominently. On the left, a sidebar under 'K-12 Educator Resources' lists Activities, Grants, Lesson Plans, and Math in the Workplace (which is highlighted). The main content area features a question 'How am I ever going to use this stuff?' followed by a paragraph explaining the relevance of real-world math problems. It then describes the intent of the lessons, which is to excite students about mathematics and demonstrate its relevance in solving real-world challenges. The text concludes by stating that these problems align with national and Idaho State mathematics standards.

K-12 Educator Resources

Activities

Grants

Lesson Plans

Math in the Workplace

How am I ever going to use this stuff?

In response to the nagging question above, these real-world math problems were contributed by a variety of business professionals and demonstrate the relevance of math in today's world.

The intent of these lessons is to excite students about mathematics, to expose students to professions that employ mathematics, and to demonstrate the relevance of mathematics in solving real-world challenges. Connecting learning to the world of work helps students see how knowledge is applied and acts to motivate them. It helps students see how what they learn relates to life beyond school so that young people can be better prepared for the rapidly changing world.

Math in the Workplace problems are aligned with both the national Standards for School mathematics and the Idaho State mathematics Achievement Standards.

Math in The Workplace/Careers

XP Math - Math in Careers Database

<http://www.xpmath.com/careers/intro.php>

The screenshot shows the homepage of the XP Math - Math in Careers Database. At the top, there is a navigation bar with colored buttons for different math categories: Number & Operations (orange), Algebra (green), Geometry (blue), Measurement (purple), Data Analysis & Probability (pink), and More (red). Below the navigation bar, the text "Updated June, 2011" is displayed. The main title "XP Math" is prominently featured in large, stylized blue letters, followed by "Math in Careers Database" in a smaller, bold black font. On the left side, under the heading "Introduction", there is a paragraph about the database's purpose and size, followed by a list of three questions. Below this is a section titled "Please Help Contribute" with a note about unfilled jobs and a link to incomplete jobs. On the right side, there is a search interface with the heading "Begin Search" and a text box containing instructions for exploring the database. Below this is a section titled "Recommended Resources" with a list of four links to other resources.

Number & Operations ▾ Algebra ▾ Geometry ▾ Measurement ▾ Data Analysis & Probability ▾ More ▾

Updated June, 2011

XP Math

Math in Careers Database

Introduction

This database was designed to help you explore a wide variety of jobs. This is important because your career choice is one of the most important decisions you will make in life. This database includes descriptions for 291 major jobs. These jobs together employ 88 percent of the American workforce. The job descriptions answer questions such as these:

- What do people in this job do all day?
- What math topics will I need on the job?
- How much does the job pay?

Please Help Contribute

There are a number of unfilled jobs. Fill out a short survey to complete a job. Thank you.

- [Incomplete Jobs](#)

Begin Search

This database contains information on math jobs and math topics. You can start to explore in three ways:

- [Lite Version](#) lists the most common jobs and is more appropriate for grades 5 and under.
- [Search by Math Topics](#) will allow you to select a math topic to find out what jobs require it.
- [Search by Jobs](#) will allow you to select a job to find out what topics it requires.

Recommended Resources

- [Real-Life Career Masters](#) These masters can be used as short activities to motivate students who need more examples of why mathematics is important. These can also be used as quick activities when the class periods have been cut short or as extra activities on assessment days for those students who finish early.
- [Occupational Outlook Handbook, 2010-11 Edition](#) The Occupational Outlook Handbook is a nationally recognized source of career information, designed to provide valuable assistance to individuals making decisions about their future work lives. The Handbook is revised every two years.
- [Exploring Career Information from the Bureau of Labor Statistics -- 2010-11 Edition](#) The Bureau of Labor Statistics' Web site for kids provides introductory career information for students in Grades 4-8. Most of the material on the site has been adapted from the Bureau's Occupational Outlook Handbook A career guidance

Advertising, marketing, promotions, public relations, and sales managers

Description: These workers help businesses sell their products. Before a product ever goes on the assembly line, marketing managers decide whether it will sell and who will buy it.

Advertising managers decide what type of ads will work best. Promotions and sales managers design campaigns to let the public know about the product. Public relations managers help companies create a good image in the community. All of these managers travel a lot, and job transfers are common.

Source: Bureau of Labor Statistics, U.S. Department of Labor, Occupational Outlook Handbook, 2008-09 Edition at <http://www.bls.gov/OCO/>

Complete Job Profile: <http://www.bls.gov/oco/ocos020.htm>

Salary: \$50,001 or more per year

There are 21 math topics Advertising, marketing, promotions, public relations, and sales managers need to know.

Basic Math / Algebra

- [Fractions](#)
- [Decimals](#)
- [Ratio and Proportion](#)
- [Percent](#)
- [Customary Measurement](#)
- [Measurement Conversion](#)
- [Basic Probability](#)
- [Basic Statistics](#)
- [Statistical Graphing](#)
- [Negative Numbers](#)
- [Basic Problem Solving](#)

First-Year Algebra

- [Using Formulas](#)
- [Linear Equations](#)
- [Algebraic Representation](#)



Geometry

- [Basic Terminology](#)
- [Angle Measurement](#)
- [Similarity](#)
- Other Topics**
 - [Basic Calculator Use](#)
 - [Computer Use](#)
 - [Group Problem Solving](#)
 - [Mental Math](#)



Computer and information systems managers

Description: Computer and information systems managers plan and direct computer labs in large and small companies and for the government. They hire computer programmers and support specialists. They manage and review the work in a business and help determine salaries. They also decide what workers and equipment are needed to do certain jobs.

Source: Bureau of Labor Statistics, U.S. Department of Labor, Occupational Outlook Handbook, 2008-09 Edition at <http://www.bls.gov/OCO/>

Complete Job Profile: <http://www.bls.gov/oco/ocos258.htm>

Salary: \$50,001 or more per year

There are 60 math topics Computer and information systems managers need to know.

Basic Math / Algebra

- [Fractions](#)
- [Decimals](#)
- [Ratio and Proportion](#)
- [Percent](#)
- [Customary](#)
- [Measurement](#)
- [Metric Measurement](#)
- [Measurement](#)
- [Conversion](#)
- [Basic Probability](#)
- [Basic Statistics](#)
- [Statistical Graphing](#)
- [Powers and Roots](#)
- [Other Number Bases](#)
- [Negative Numbers](#)
- [Scientific Notation](#)
- [Basic Problem Solving](#)

First-Year Algebra

- [Using Formulas](#)
- [Linear Equations](#)
- [Linear Inequalities](#)
- [Operations with Polynomials](#)
- [Factoring Polynomials](#)
- [Rational Expressions](#)
- [Coordinate Graphing 2D](#)
- [Linear Systems](#)
- [Radicals](#)

Second-Year Algebra/Trigonometry

- [Functions](#)
- [Variation](#)
- [Imaginary Numbers](#)
- [Polynomial Equations](#)
- [Logarithms](#)
- [Sequences and Series](#)
- [Coordinate Graphing 3D](#)

Other Topics

- [Basic Calculator Use](#)
- [Scientific Calculator Use](#)
- [Computer Use](#)
- [Computer Programming](#)
- [Group Problem Solving](#)
- [Mental Math](#)
- [Inductive/Deductive Reasoning](#)
- [Math Communications](#)
- [Mathematical Modeling](#)



Construction managers

Description: Construction managers plan and direct construction projects. On small projects, they are responsible for all the people, materials, and equipment at a job site. They hire and schedule workers, make sure materials are delivered on time, and oversee the safety of the work site. They often work outdoors, and may be on call 24 hours a day to deal with delays, bad weather, and emergencies.

Source: Bureau of Labor Statistics, U.S. Department of Labor, Occupational Outlook Handbook, 2008-09 Edition at <http://www.bls.gov/OCO/>

Complete Job Profile: <http://www.bls.gov/oco/ocos005.htm>

Salary: \$50,001 or more per year

Comments:

Hey I'm a commercial subcontractor and I use math everyday fractions, figuring out volume, sq. footage you name it my job is math all day everything I do is math related, figuring out scale from the blue prints etc. I didn't see anything like that at all also electrical trades are very dependent on math as well, carpenters, etc.

There are 32 math topics Construction managers need to know.

Basic Math / Algebra

- [Fractions](#)
- [Decimals](#)
- [Ratio and Proportion](#)
- [Percent](#)
- [Customary Measurement](#)
- [Metric Measurement](#)
- [Measurement Conversion](#)
- [Basic Probability](#)
- [Basic Statistics](#)
- [Statistical Graphing](#)
- [Powers and Roots](#)
- [Basic Problem Solving](#)

First-Year Algebra

- [Using Formulas](#)
- [Linear Equations](#)



Human resources, training, and labor relations managers and specialists

Description: These workers find the best employees they can and match them with jobs in their company. They interview job candidates and train new workers. They may travel to college campuses to find the best job applicants. They also help to resolve conflicts among workers or between workers and management.

Source: Bureau of Labor Statistics, U.S. Department of Labor, Occupational Outlook Handbook, 2008-09 Edition at <http://www.bls.gov/OCO/>

Complete Job Profile:

<http://www.bls.gov/oco/ocos021.htm>

Salary: \$28,001 to \$50,000 per year

There are 19 math topics Human resources, training, and labor relations managers and specialists need to know.

Geometry

- [Basic Terminology](#)
- [Angle Measurement](#)
- [Congruent Triangles](#)
- [Triangle Inequalities](#)
- [Parallel Lines](#)
- [Quadrilaterals](#)
- [Similarity](#)
- [Pythagorean Theorem](#)
- [Circles](#)
- [Area](#)
- [Volume](#)
- [Make/Use 3D Drawings](#)

Other Topics

- [Basic Calculator Use](#)
- [Computer Use](#)
- [Group Problem Solving](#)
- [Mental Math](#)
- [Inductive/Deductive Reasoning](#)
- [Math Communications](#)

Basic Math / Algebra

- [Fractions](#)
 - [Decimals](#)
 - [Ratio and Proportion](#)
 - [Percent](#)
 - [Customary Measurement](#)
 - [Measurement Conversion](#)
 - [Basic Statistics](#)
 - [Statistical Graphing](#)
 - [Negative Numbers](#)
 - [Basic Problem Solving](#)
- First-Year Algebra**
- [Using Formulas](#)
 - [Linear Equations](#)

Geometry

- [Area](#)
 - [Volume](#)
- Other Topics**
- [Scientific Calculator Use](#)
 - [Computer Use](#)
 - [Group Problem Solving](#)
 - [Mental Math](#)
 - [Inductive/Deductive Reasoning](#)



Recruiting, Screening, Hiring.

Food service managers

Description: Food service managers select and price the food on a restaurant's menu. They hire and train workers and manage staffing, payroll, and bookkeeping. They also oversee the preparation of food, order supplies and ingredients, and make sure the restaurant is clean and well maintained. Many managers work nights and weekends, often under stressful circumstances.

Source: Bureau of Labor Statistics, U.S. Department of Labor, Occupational Outlook Handbook, 2008-09 Edition at <http://www.bls.gov/oco/>

Complete Job Profile: <http://www.bls.gov/oco/ocos024.htm>

Salary: \$28,001 to \$50,000 per year

There are 18 math topics Food service managers need to know.

Basic Math / Algebra

- [Decimals](#)
- [Ratio and Proportion](#)
- [Percent](#)
- [Customary Measurement](#)
- [Metric Measurement](#)
- [Basic Statistics](#)
- [Statistical Graphing](#)
- [Powers and Roots](#)
- [Negative Numbers](#)
- [Basic Problem Solving](#)

First-Year Algebra

- [Using Formulas](#)

Geometry

- [Basic Terminology](#)
- [Angle Measurement](#)
- [Area](#)
- [Volume](#)



Other Topics

- [Basic Calculator Use](#)
- [Computer Use](#)
- [Group Problem Solving](#)



Medical and health services managers

Description: Medical and health services managers plan, organize, and supervise the delivery of health care. They determine staffing and equipment needs and direct the public relations, marketing, and finances of hospitals, nursing homes, HMOs, clinics, and doctor's offices. They may be in charge of an entire organization or only one department within it. These managers earn high salaries, but they often work long hours.

Source: Bureau of Labor Statistics, U.S. Department of Labor, Occupational Outlook Handbook, 2008-09 Edition at <http://www.bls.gov/oco/>

Complete Job Profile: <http://www.bls.gov/oco/ocos014.htm>

Salary: \$50,001 or more per year

There are 71 math topics Medical and health services managers need to know.

Basic Math / Algebra

- [Fractions](#)
- [Decimals](#)
- [Ratio and Proportion](#)
- [Percent](#)
- [Customary Measurement](#)
- [Metric Measurement](#)
- [Measurement Conversion](#)
- [Basic Probability](#)
- [Basic Statistics](#)
- [Statistical Graphing](#)
- [Powers and Roots](#)
- [Other Number Bases](#)
- [Negative Numbers](#)
- [Scientific Notation](#)
- [Basic Problem Solving](#)

First-Year Algebra

- [Using Formulas](#)
- [Linear Equations](#)
- [Linear Inequalities](#)
- [Operations with Polynomials](#)
- [Factoring Polynomials](#)
- [Rational Expressions](#)
- [Coordinate Graphing 2D](#)
- [Linear Systems](#)
- [Radicals](#)
- [Quadratic Equations](#)
- [Algebraic Representation](#)

Geometry

- [Basic Terminology](#)
- [Angle Measurement](#)
- [Congruent Triangles](#)
- [Triangle Inequalities](#)
- [Parallel Lines, Quadrilaterals](#)

- [Similarity](#)
- [Geometric Mean](#)
- [Pythagorean Theorem](#)
- [Right Triangle Trigonometry](#)
- [Circles](#)
- [Constructions](#)
- [Area](#)
- [Volume](#)
- [Transformations](#)
- [Make/Use 3D Drawings](#)

Second-Year Algebra / Trigonometry

- [Functions](#)
- [Variation](#)
- [Imaginary Numbers](#)
- [Polynomial Equations](#)
- [Logarithms](#)
- [Sequences and Series](#)
- [Matrices](#)
- [Coordinate Graphing 3D](#)
- [Advanced Probability](#)
- [Advanced Statistics](#)
- [Conic Sections](#)
- [Non-Linear Systems](#)
- [Trigonometric/Circular Functions](#)
- [Graphs of Trigonometric Functions](#)
- [Trigonometric Identities](#)
- [Trigonometric Equations/Inverses](#)
- [Oblique Triangles](#)
- [Polar Coordinates/Graphs](#)
- [Vectors, Mathematical Modeling](#)

Other Topics

- [Calculus and Higher Math](#)
- [Basic Calculator Use, Mental Math](#)
- [Scientific Calculator Use, Computer Use](#)

Math in The Workplace/Careers

Khake Vocational Math

<http://www.khake.com/page56.html>

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Math on the Job - How you use Math at Work

Math Resources for Career and Technical Education focusing on how math is used by specific technical careers. Additional Math resources for formulas, tutorials, money, financial literacy, math tools, history of math, and specific math disciplines are found on the [Math Education Resources](#) page.

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How Math is Used on the Job

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Math in The Workplace/Careers

We Use Math

<http://weusemath.org/>

The screenshot shows the homepage of the We Use Math website. At the top, there is a navigation bar with the "We Use Math" logo, followed by links for CAREERS IN MATH, CAREERS USING MATH, MATH TIDBITS, BLOG, and RESOURCES FOR TEACHERS. Below the navigation bar is a large, smiling young woman with blue eyes and headphones around her neck, set against a wooden background. To the left of the main image is a white sidebar containing text about the website's mission and a "LEARN MORE" button.

We're dedicated
to helping every
student that has
sat in their high
school math
class and asked:
**"When will I
ever use this?"**

[LEARN MORE](#)

Math in The Workplace/Careers

BBC Skillswise Maths for adults

<https://www.bbc.co.uk/teach/skillswise/math/zfdymfr>

The screenshot shows the BBC Teach Skillswise Maths for adults page. At the top, there's a navigation bar with the BBC logo, sign-in options, and links for Home, News, Sport, Reel, Worklife, Travel, Future, Culture, More, Search, and Teacher Support. Below that is a secondary navigation bar with Home, Primary, Secondary, Skillswise, School Radio, Young Reporter, and Teacher Support. The main content area has a pink header bar with the word 'Skillswise'. The main title 'Maths for adults' is displayed prominently. A breadcrumb trail 'BBC Teach > Skillswise' is visible. A descriptive text block says: 'Free videos and downloadable worksheets to help adult learners improve their calculation and numeracy skills.' There are three main sections with images: 'Numbers' (showing grey 3D numbers), 'Calculation' (showing a calculator and a pen on a financial document), and 'Percent and fractions' (showing people in business suits and percentages like +3.5%, -5.2%, and -125%).

BBC | Sign in | Home | News | Sport | Reel | Worklife | Travel | Future | Culture | More | Search | Q

Teach | Home | Primary | Secondary | Skillswise | School Radio | Young Reporter | Teacher Support

Skillswise

Maths for adults

BBC Teach > Skillswise

Free videos and downloadable worksheets to help adult learners improve their calculation and numeracy skills.

Numbers

Calculation

Percent and fractions

Math in The Workplace/Careers

Jim Wilson's Home Page - University of Georgia Mathematics in the Workplace: The Oncology Office

<http://jwilson.coe.uga.edu/EMT668/EMAT6680.2002/Jackson/emat6690/encology%20office/mainpage.html>

Mathematics in the Workplace:

The Oncology Office

The oncology office is a unique situation. It employs people with diverse educational backgrounds. There are employees with college educations such as the doctors, nurses, the office manager, and even some of the clerical staff. There are the employees with that have two year degrees such as registered nurses and radiology technicians. Finally, there are employees with only a high school diploma such as the receptionists, the billing department, and the clerks. All of these individuals use mathematics on a daily basis and could not do their jobs without mathematics.

Now, click on a job title below to see how mathematics is used in each profession.

[The Receptionist](#)

[The Billing Agent](#)

[The Clerical Staff](#)

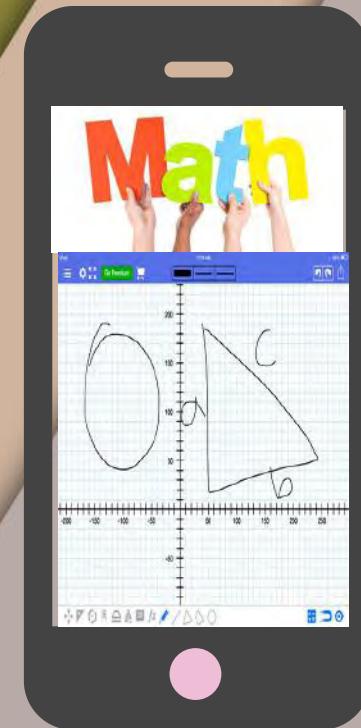
[The Office Manager](#)

[The Nurses](#)

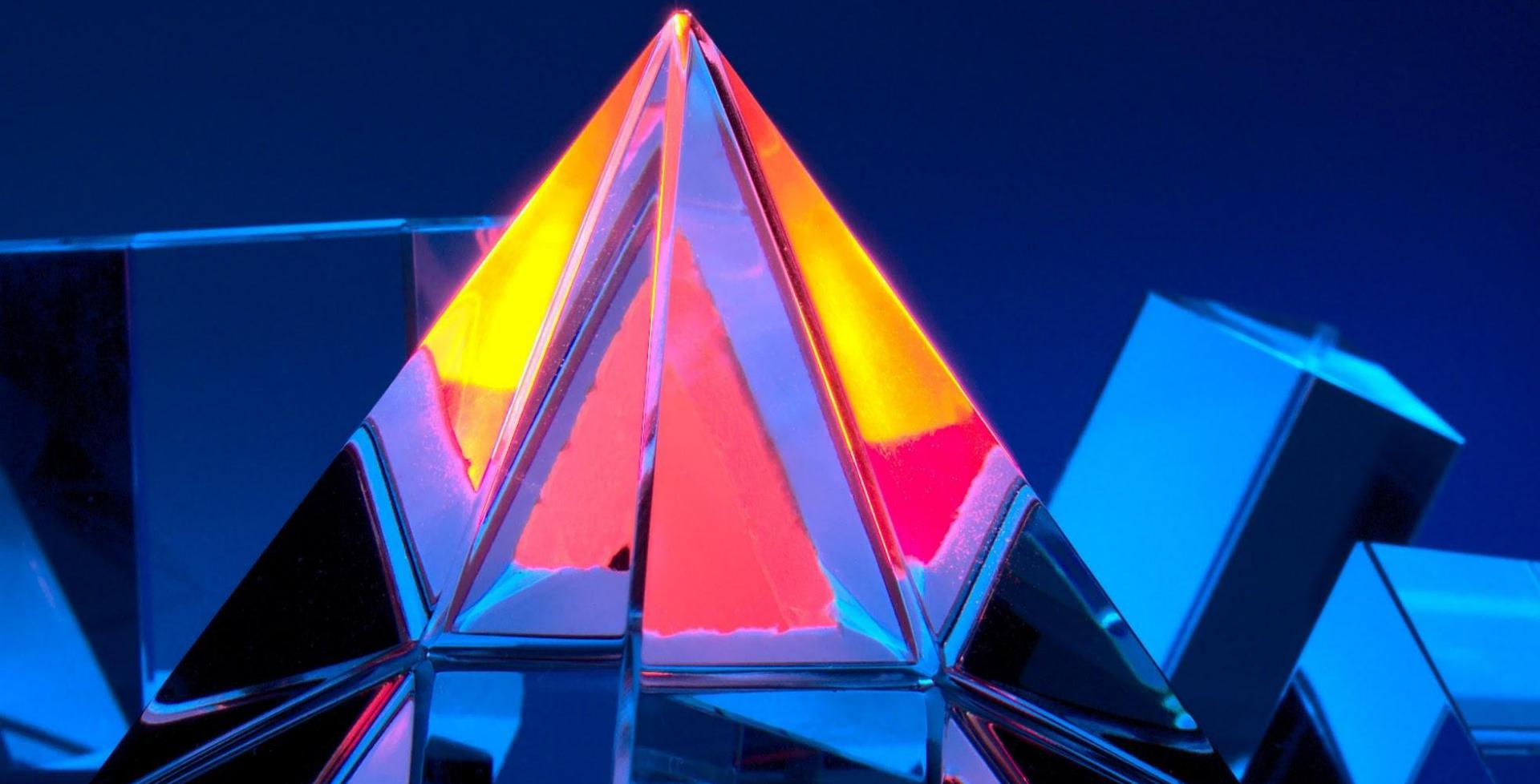
[The Doctors](#)

10 Best Apps to Improve Math Skills for Adults 2020

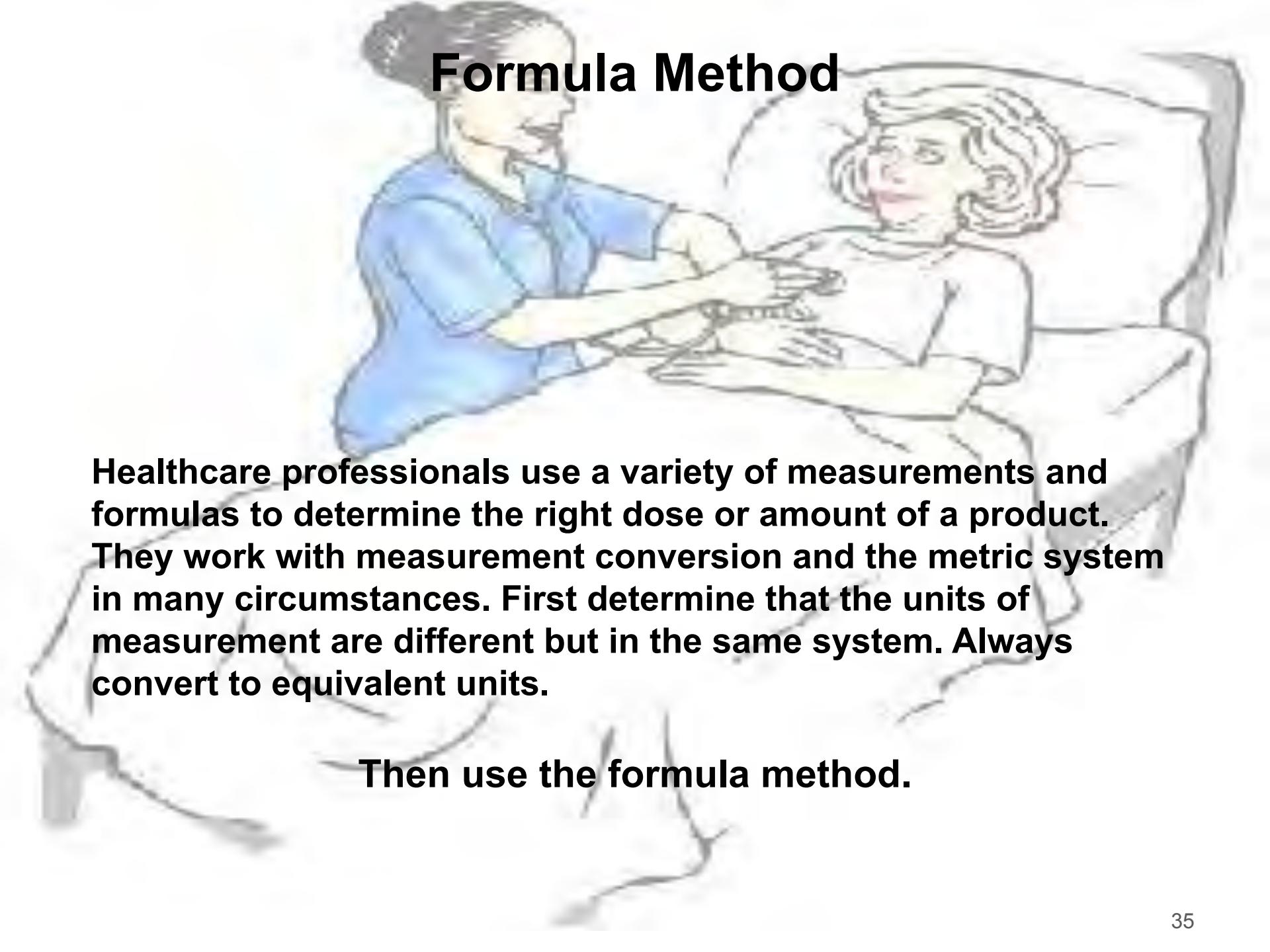
- Star Dash Studios
- Sumaze
- Khan Academy
- Math Brain Booster Games
- King of Maths
- Learning Upgrade
- Photomath
- Gojimo
- Mathway
- GeometryPad



Math Real World Situations - Workplace Healthcare Homemade Activities



Formula Method



Healthcare professionals use a variety of measurements and formulas to determine the right dose or amount of a product. They work with measurement conversion and the metric system in many circumstances. First determine that the units of measurement are different but in the same system. Always convert to equivalent units.

Then use the formula method.

Then use the formula method.

$$\frac{D}{H} \times V = A$$

Where: **D** = desired or prescribed dosage of the medication

H = dosage of medication available or on hand

V = volume that the medication is available in, such as one tablet or milliliters

A = amount of medication to administer

Example: *D the desired dose = 8 mg. H the dose on hand is 10 mg. and V the volume the medication comes in is 1 ml.*

$$\begin{array}{r} \underline{8 \text{ mg}} \quad \times \quad 1 \text{ ml} = A \\ 10 \text{ mg} \\ \text{cancel milligrams} \\ \hline \underline{\frac{8}{10}} \quad \times \quad 1 \text{ ml} = A \end{array}$$

answer: 0.8 ml = A

Then use the formula method.

$$\frac{D}{H} \times V = A$$

Where: **D** = desired or prescribed dosage of the medication

H = dosage of medication available or on hand

V = volume that the medication is available in, such as one tablet or milliliters

A = amount of medication to administer

Practice:

Medication Ordered:

Dexamethasone 2 mg IV daily

Medication Available:

Dexamethasone 4 mg/ml

Calculate:

Practice:

Medication Ordered: Diazepam

10 mg IM daily Medication Available:

Diazepam 5 mg/ml

Calculate:

Locate the appropriate labels for the following drug orders and indicate the number of tablets/capsules or solution that will be required to administer the dosages ordered. Assume that all tablets are scored.

Grain (g) = 1 gr = 64.79891 mg

Mcg = One microgram (μ g) = 0.001 milligrams (mg).
 $300 \mu\text{g} = 0.3 \text{ mg}$

Dilatrate® -SR 0.04g _____ cap

Terbutaline sulfate 5000 mcg _____ tab

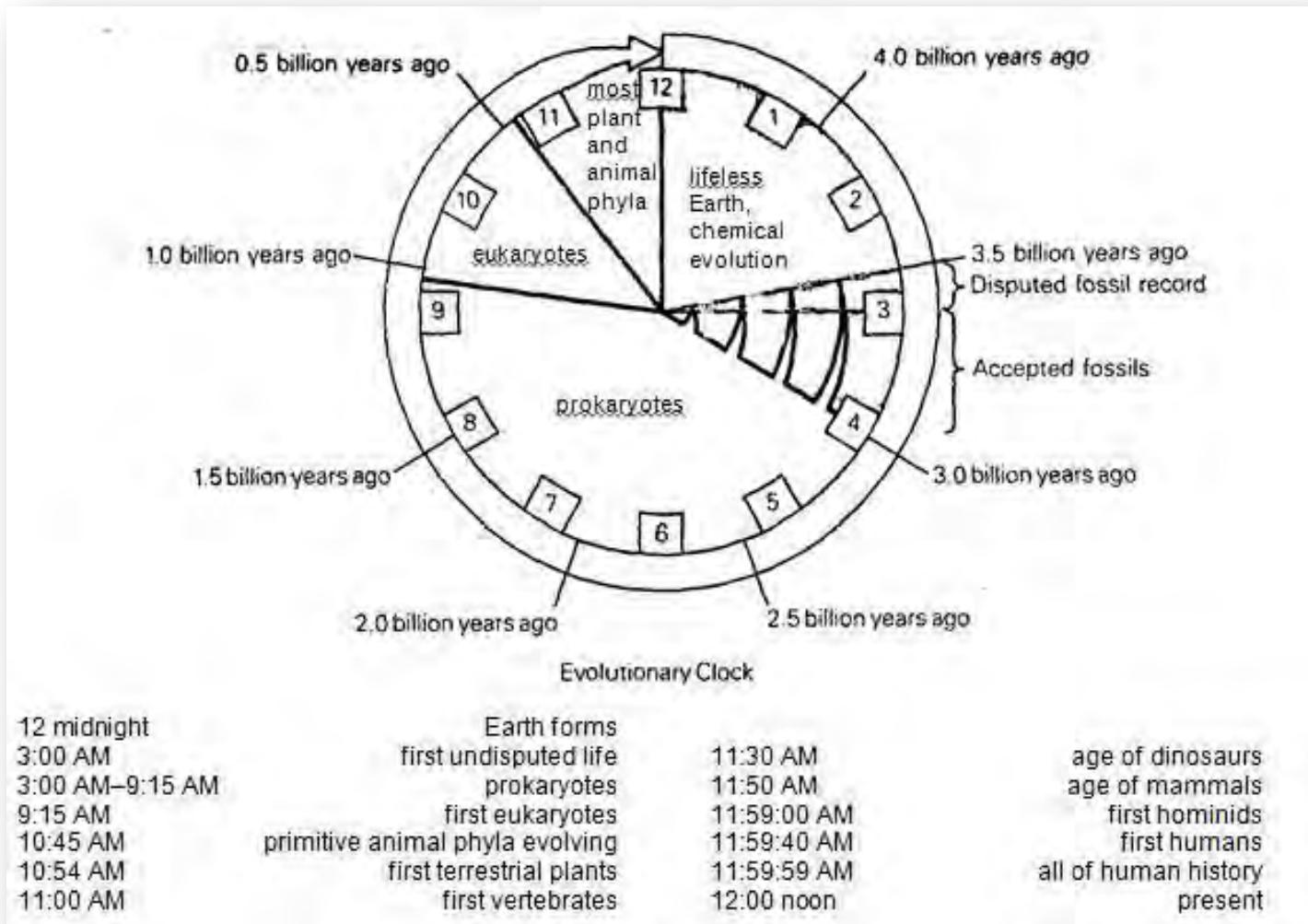
Cefpodoxime proxetil 0.2 g _____

Augmentin® 0.75 g _____



Math Real World Situations - Science Tables, Charts and more Homemade Activities

Math in Science - Evolutionary Clock





Underground Contamination

Table 1: Site A

Depth	Benzene	Dioxin	Asbestos
10 feet	0.02	0.31	0.01
20 feet	0.15	0.26	0.02
30 feet	0.18	0.02	0.02
40 feet	0.03	0.05	0.12
50 feet	0.01	0.03	0.29

Table 2: Site B

Depth	Benzene	Dioxin	Asbestos
10 feet	0.28	0.45	0.04
20 feet	0.37	0.29	0.07
30 feet	0.16	0.12	0.11
40 feet	0.04	0.03	0.28
50 feet	0.02	0.01	0.56

Math - Riddles, Numeracy, and Word Problems

Homemade Activities



1 2 3 4 5 6 7 8 9 10

THINK OF A NUMBER BETWEEN 1 AND 10

x2

MULTIPLY THAT NUMBER BY 2

+8

ADD 8 TO YOUR NEW NUMBER

÷2

DIVIDE THAT NUMBER BY 2

- ? =

SUBTRACT YOUR ORIGINAL NUMBER

?

YOU SHOULD HAVE A NUMBER BETWEEN 1 AND 26

**TAKE THAT NUMBER AND MATCH IT
WITH ITS CORRESPONDING LETTER BELOW**

1 2 3 4 5 6 7 8 9

A B C D E F G H I

10 11 12 13 14 15 16 17

J K L M N O P Q

18 19 20 21 22 23 24 25 26

R S T U V W X Y Z

**NOW TAKE THAT LETTER
AND THINK OF ANY COUNTRY IN THE WORLD THAT BEGINS
WITH THAT LETTER**

Australia

Brazil

China

Denmark

Egypt

France

Germany

Haiti

India

Japan

Kenya

Latvia

Mexico

Norway

Orman

Peru

Russia

Spain

Thailand

Ukraine

Venezuela

Western Samoa

Yemen

Zimbabwe

**TAKE THE LETTER THAT COMES NEXT IN THE ALPHABET
(FOR EXAMPLE, IF YOU HAD THE LETTER B, YOU WOULD
NOW USE THE LETTER C)**

AND THINK OF AN ANIMAL THAT BEGINS WITH THAT LETTER

Alligator

Buffalo

Cat

Dog

Elephant

Fox

Giraffe

Horse

Ibex

Jaguar

Kangaroo

Lion

Mouse

Newt

Ox

Python

Rooster

Swan

Tiger

Unicorn

Vole

Weasel

Yak

Zebra

NOW THINK ABOUT WHAT COLOR THAT ANIMAL IS

THINK ABOUT THAT COUNTRY, THE ANIMAL, AND ITS COLOR

...

. . . WHILE I RECEIVE YOUR MENTAL THOUGHT VIA THE
INTERNET

Legs and Paws

**There are six women.
Each woman has six baskets.
Each basket has six cats.
Each cat has six kittens.**



How many paws are there in all?



How many human feet are there all together?



Calculator Use

**A typical cat needs to eat twice a day for a total of 2.50 ounces of food.
A typical kitten will eat four times a day for a total 4.10 ounces of food.**

Your neighborhood pet store is selling:

Kitten Food = \$8.00 for 4 lbs.



Cat Food = \$8.00 for 4 lbs.



What would it cost you, if you had to feed all of these cats and kittens for one week?

- 16 ounces = 1 lb.

Riddle

The following number is the only one of its kind. Can you figure out what is so special about it? 8,549,176,320.

Riddle

A plane travels at a speed of 400 miles per hour for 1200 miles, and then returns by the same route at a speed of 300 miles per hour. What is the average speed for the total trip?

Riddle

A 40-yard long street has a tree every 10 yards on both sides. How many trees are there?

Riddle

There were six women.
Each woman had six baskets.
Each basket had six cats.
Each cat had six kittens.
How many paws in all?

Riddle

The Man at St. Ives is one of the oldest riddles in history, check it out.

As I was going to St. Ives
I met a man with seven wives.
Each wife had seven sacks,
Each sack had seven cats,
Each cat had seven kits;
Kits, cats, sacks and wives,
How many were going to St. Ives?

Riddle

What row of numbers comes next in this series?

- 1
- 11
- 21
- 1211
- 111221
- 312211
- 13112221

How many were going to St. Ives?

13112221
345544

Riddle

You have a barrel of oil, and you need to measure out just one gallon. How do you do this if you only have a three-gallon container and a five-gallon container?

Riddle

If a certain brand of ice cream is 99% fat-free, how many cups would I have to eat to ingest the same amount of fat that would be in 1 cup of regular ice cream?

Riddle

If you have 6 black socks, 4 blue socks, 8 brown socks, and 2 red socks in your sock drawer, what is the minimum number of socks that you need to pull out in the dark to be sure you had a matching pair?

Riddle

Jake weighs half as much as Joe, and John weighs three times as much as Jake. Together, they weigh 720 pounds. How much does each man weigh?

Riddle

Riddle

Coffee Break

In your mind, follow these instructions:

1. Beginning with a full cup of coffee, drink one-sixth of it.
2. Pour into the cup the same amount of milk as you have just drunk of the coffee.
3. Now drink one-third of the mixture.
4. Pour into the cup the same amount of milk as you have just drunk of the mixture.
5. Now drink one-half of the mixture in the cup.
6. Pour into the cup the same amount of milk as you have just drunk of the mixture.
7. Drink the whole cup of liquid.
8. Have you had more milk or more coffee? How much of each have you had?

8. Have you had more milk or more coffee? How much of each have you had?
To drink the whole cup of liquid, you must add up all the milk and coffee you have drunk.

Number Stumpers

This activity is bound to get your gray matter moving. Using the clues given for each number, figure out the number answer for each question.

Example: Clues 1: It is an even two-digit number

- 2: The difference between its digits is 1.
- 3: When the two digits are multiplied, the product is 12.

The answer is _____.

1. Clues 1: It is an odd two-digit number.

- 2: The sum of its digits is 8.
- 3: The sum of the squares of its digits is 50.

The answer is _____.

2. Clues 1: It is an odd two-digit number.

- 2: The product of its two digits is 24.
- 3: When the second digit is subtracted from the first, the difference is 5.

The answer is _____.

3. Clues 1: It is an even two-digit number.

- 2: One-half the number is 5 more than the number of days in a fort-night.
- 3: The sum of the squares of the two digits is 73.

MATH WORD SORT Activity

MATH WORD SORT

From the Word Bank on the other side of the page, choose at least five words with similar meanings that you can group. Choose three different groups of math words or phrases, title and explain below why they belong in each group. Complete with sentences preferred.

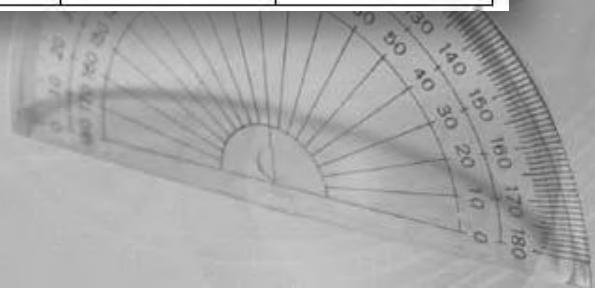
Word Group Title 1: _____

Word Group Title 2: _____

Word Group Title 3: _____

Word Bank

add	change (for money)	left
all together	Decrease	less than
and	decrease by	nearer
cut	Total	is equal to
both	Difference	reduce
combined	Farther	remain/remaining
twice	the result is	average
how many in all	how many more	left
is	Whole	multiply
quotient	Smaller	every
in all	how many less	so on
increased by	how much left	each
split	times (as much)	yields
is the same as	Increase	less than
in all	More	nearer
of	more than	reduce
product of	Plus	remain/remaining
divide	Sum	Total



Math @ the Movies - Read the questions below, solve on a separate sheet of paper and then select the answer from the drop-down list to the right. Then choose the corresponding letter in the drop-down list to the left.

Number and Letter Bank						
A = 1	B = 2	C = 3	D = 4	E = 5	F = 6	G = 7
H = 8	I = 9	J = 10	K = 11	L = 12	M = 13	N = 14
O = 15	P = 16	Q = 17	R = 18	S = 19	T = 20	U = 21
	V = 22	W = 23	X = 24	Y = 25	Z = 26	

Movie #1

Choose an item. **The number of U.S. states minus 30.** Choose an item.

Choose an item. **The number in a quartet plus two squared.** Choose an item.

Choose an item. **The number of events in a pentathlon.** Choose an item.

Choose an item. **The number of days in a fortnight plus five.** Choose an item.

Choose an item. **1/4 of the minutes in an hour.** Choose an item.

Choose an item. **Its Roman numeral equivalent is XXI.** Choose an item.

Choose an item. **The number of lines in a sonnet.** Choose an item.

Choose an item. **1/3 of the number of days of Christmas.** Choose an item.

Choose an item. **Its square is 225.** Choose an item.

Choose an item. **It is the number of people in 2 trios.** Choose an item.

Choose an item. **Very few buildings have this floor number.** Choose an item.

Choose an item. **9 + 6 + 3 + 3.** Choose an item.

Choose an item. **One less than a score.** Choose an item.

Choose an item. **3 squared.** Choose an item.

Choose an item. **1/27 of 81.** Choose an item.

Math @ the Movies - Read the questions below, solve on a separate sheet of paper and then select the answer from the drop-down list to the right. Then choose the corresponding letter in the drop-down list to the left.

Number and Letter Bank						
A = 1	B = 2	C = 3	D = 4	E = 5	F = 6	G = 7
H = 8	I = 9	J = 10	K = 11	L = 12	M = 13	N = 14
O = 15	P = 16	Q = 17	R = 18	S = 19	T = 20	U = 21
V = 22	W = 23	X = 24	Y = 25	Z = 26		

	A = 35	M = 53	Y = 59	A = 52	S = 50	
O = 32	b = 70	T = 71	B = 78			U = 51

Movie #3

Choose an item. It's 3/7 of 42. Choose an item.

Choose an item. Its cube is 3,375. Choose an item.

Choose an item. This number times 3.75 is 11.25. Choose an item.

Choose an item. When squared, cubed, and quadrupled, its results are all palindromes. Choose an item.

Choose an item. The next perfect square after 16. Choose an item.

Choose an item. The last digit of 10¹⁰⁰. Choose an item.

Drag the boxes to make a flowchart with examples on how to solve equations.

Copy the arrows as you need them.



Isolate the Variable You Wish to Solve For

Combine Like Terms

Isolate the Terms that Contain the Variable

Steps for Solving Equations

Combine like terms and simplify
 $3z + 5 + 2z = 12 + 4z$

Solve the following equation for the variable in the equation.
 $9x + 3 = 8x + 19$

Substitute Your Answer into the Original Equation

Result:
 $72 = 72$

Result:
 $x = 20$

Result:
 $x = 16$

Result:
 $5 = 12$

Result:
 $23 = z$

$a + 12 = b$, and $a = 9$, find the value for b .

Solve the following equation for the variable in the equation.
 $38 = z + 15$

Solve the equation for x .
 $(2/5)x = 8$

Creating Math Word Problems Using Realia

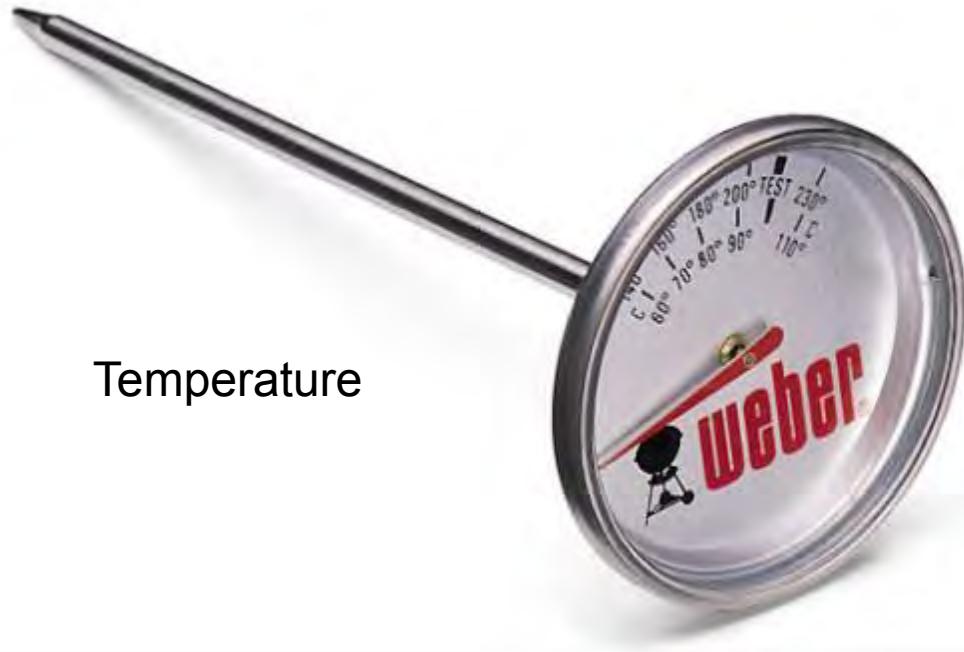
1. What realia are you using for your math words problem?

2. Write in word problem below.

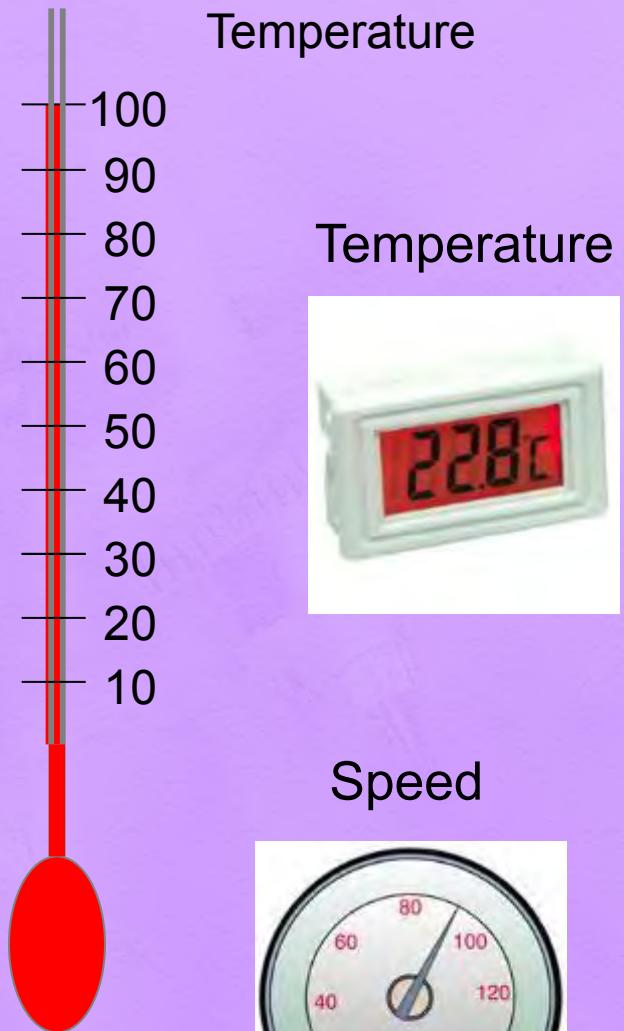
3. Possible Answers.

4. Possible variations on the question.

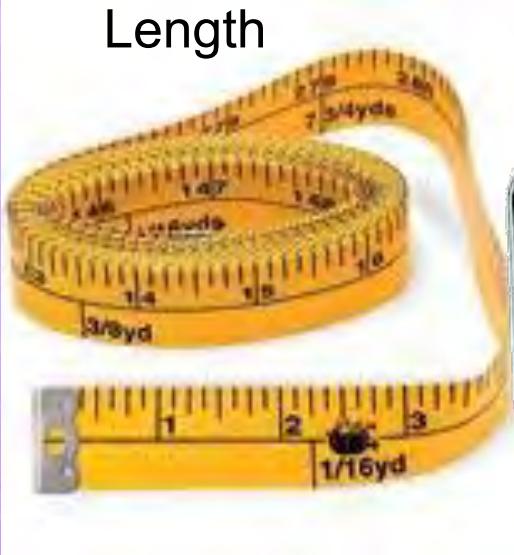
Everyday Life Measuring



Temperature



Length



Weight



Speed





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 Alka Seltzer View \$1.00 off ALKA-SELTZER ANTACID OR PLUS Cold	 Skinimate View \$1.00 off two Skinimate Shave Gels or Cremes
 Prescription Drug Coupon View up to 50% off or more FDA drugs	 Campbell's View \$0.50 off any 2 Campbell's Microwavable Bowls
 FiberChoice View \$1.00 off any FiberChoice 90 ct product	 ALPO View \$1.50 off ten ALPO Dog Food

◀ 11-20 of 195 ▶

<http://www.coupons.com/>

SAVE \$1.00 BEN & JERRY'S® off 2 pints of Ben & Jerry's® Greek Frozen Yogurt. **\$1.00**

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CLIP



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An Absolutely Perfect Roast Goose +

Christmas Viennese Crescent Cookies

Crispy Crunchy Peanut Snowballs

Cranberry Orange Cookies

Homemade Pumpkin Pies

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Today's Recipe:



<http://recipeland.com/>

Christmas Viennese Crescent Cookies

Print | [Edit Recipe](#) | [Add to Favorites](#)

Edited on 4 October 2012 and 2 modifications



[Add your photo of this recipe](#)

Classic Viennese Christmas cookie. Soft and buttery with a dusting of snowy sugar



View full recipe | View Ingredients | View Preparation | View Nutrition

Fresh from the oven

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Twisted Butter's 30 Recipes

Re Chut

Taiwan Chick-Sage

Pumpkin Bread

Pomegranate Tarts

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Feature Recipe



Ingredients

2 1/2	cup	flour, all-purpose
1/4	cup	cornstarch
2	teaspoons	baking powder
1	teaspoon	salt
1	large	egg
3	tablespoons	milk
1 1/2	teaspoons	vanilla extract
1	cup	sugar
1	cup	butter, unsalted

[View full recipe](#) | [View Ingredients](#) | [View Preparation](#) | [View Nutrition](#)

Directions

Mix flour, cornstarch, baking powder, and salt in a medium bowl; divide into half.

Mix egg, milk, and vanilla extract together in a small bowl or a measuring cup.

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Fresh from the oven

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1454 new photos & 262 new users

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Pumpkin Bread

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Nutrition Facts

Nutrition Facts	
Serving Size 12g (0.4 oz)	
Amount per Serving	
Calories 50	48% of calories from fat
Total Fat 2g	4%
Saturated Fat 1g	3%
Trans Fat 0g	0%
Cholesterol 10mg	2%
Sodium 2mg	1%
Total Carbohydrate 5g	1%
Dietary Fiber 0g	0%

<http://themenupage.com/index.html>

TheMenuPage.com

Menus, Profiles, Pictures, Videos, Wine Lists and more.



Welcome to TheMenuPage.com

View Information for Restaurants, Entertainment, Art, Wine and more...

This Month's Featured Restaurants

These are this month's Featured Restaurants. Click on any restaurant name to see detailed description and profile information, menus, pictures, videos and more.



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Categories: Island / Polynesian / Seafood / Full Bar / Happy Hour



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Categories: Continental / Italian / Seafood / Steaks / Fish/Seafood / Live Entertainment / Full Bar / Banquet / Private Rooms / Patio / Outside Seating

TheMenuPage.com

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Berone's Sample Dinner Menu

Appetizers

Souvlaki
original Gorgonzola & green onion fritters! cooked golden brown, rolled with fresh garlic, accompanied with romesco tomato sauce • Souvlaki (four pieces) \$6 / Large (eight pieces) \$10 / Ultrafab (twelve pieces) \$14

Carpaccio
thin sliced raw beef, capers, shaved parmesan cheese, extra virgin olive oil, lemon juice, balsamic vinegar, fresh arugula and crostini
\$13

Berone's Crab Cakes
with jalapeño-chimichurri sauce and fresh fruit salsa
\$13

Monterey Bay Calamari
fried and served with a Thai sweet garlic-chili sauce
\$10

Steamed Salmon
ahi-horseradish cream fraiche, red onions, capers and toasted onions
\$10

Berone's Seafood Platter
fresh oysters, shrimp scampi, sautéed filet mignon and broiled salmon, served with fresh lemon sauce
\$18

Prawns Martini Cocktail
large prawns served with our house made cocktail sauce
\$13

Oysters on the half-shell
half dozen, lemon-mint sauce and house made cocktail sauce
\$13

Math Website and App Ideas - Geometry



Some printable paper rulers

http://www.vendian.org/mncharity/dir3/paper_rulers/

Here are some rulers you can print out.
Disposable paper rulers! :)

Disable any "[shrink to fit](#)" option when printing.
There is [a note](#) below about accuracy.



One foot ruler
1 ft long, 3 cm wide. One per page.
(centimeters and inches)
For US letter-size paper.

[PDF](#)

[PS source](#)



One foot ruler (for A4 paper)
1 ft long, 3 cm wide. One per page.
(centimeters and inches)
For A4 size paper.

[PDF](#)

[PS source](#)



Metric rulers
25 cm long, 3 cm wide. 6 per page.
(centimeters and millimeters)

[PDF](#)

[PS source](#)



Centimeter/Inch rulers
25 cm long, 3 cm wide. 6 per page.

[PDF](#)

[PS source](#)

Print a Protractor

Here are some protractors you can download, print and use. I suggest printing on transparency film. These protractors should not be used on screen because computer displays generally distort image dimensions in such a way as to make the markings less precise.

Conventional Protractor

This is a conventional protractor for measurement of angles in degrees.



- PDF sheet for printing
- Postscript
- DXF format CAD file

Decimal Spread Protractor

This is a protractor for measurement of quadrants and spread. [Source: [Ossmann](#)] image presented by Dr. Norbert Wiedenhofer in his book: [Dreieck-Projektions-Formel](#).



- PDF sheet for printing
- Postscript
- DXF format CAD file



Main page
Contents:
Featured content
Current events
Random article
Donate to Wikipedia
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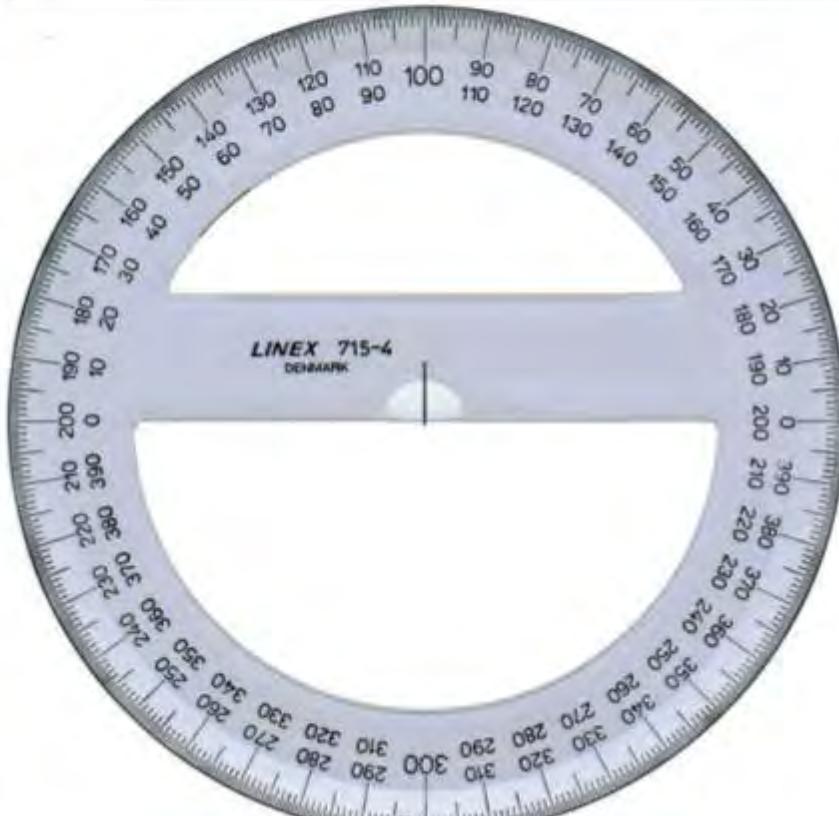
Interaction
Help
About Wikipedia
Community portal
Recent changes
Contact Wikipedia

Toolbox

File:Grad protractor.png

From Wikipedia, the free encyclopedia

[File](#) [File history](#) [File usage](#) [Global file usage](#)



Size of this preview: 501 × 569 pixels. Other resolutions: 241 × 240 pixels | 483 × 480 pixels | 954 × 960 pixels.
Full resolution (854 × 849 pixels, file size: 568 KB, MIME type: image/png)

http://en.wikipedia.org/wiki/File:Grad_protractor.png

<http://www.ossmann.com/protractor/>

The Ruler Game

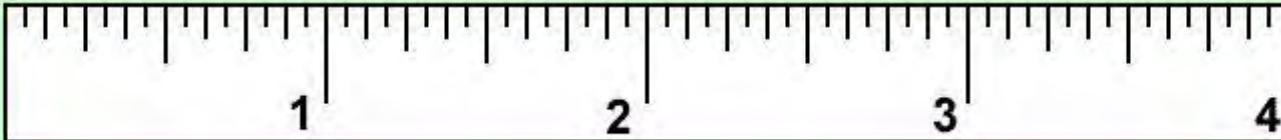
<http://www.rickyspears.com/rulergame/>

THE
RULER GAME

Browser cannot display the webpage for...

Score: Timer On Sixteenths

Strikes: Level: Timer:



Click on:

 Like  4 people like this. Sign Up to see what your friends like.

Preferences

Timer: On Off

Increment Level:

Shoder.org - Pythagorean Explorer and Algebra Quiz

<http://www.shodor.org/interactivate/activities/PythagoreanExplorer/>



The image displays two web browser windows from the Shodor.org website. The top window is titled "Pythagorean Explorer" and shows a navigation bar with "Learner", "Activity" (which is selected), "Help", and "Instructor". A dropdown menu "Difficulty level: Level 1" is open. The bottom window is titled "Algebra Quiz" and also features a similar navigation bar. Both windows have a green header bar with the "Interactivate" logo. To the right of the windows, there is a diagram of a right triangle with legs of length 4 and 5, and a hypotenuse labeled x .

Harcourt School - Angle Relationship

http://www.harcourtschool.com/activity/rubber_angle_relationships/



HMH SCHOOL PUBLISHERS ————— SEARCH HOME

Click a box. Then click an angle that is complementary or supplementary to the angle you clicked.

- Box 1: Angle QP at 38° (red dot)
- Box 2: Angle XWY at 115° (green dot)
- Box 3: Angle RS at 75° (red dot)
- Box 4: Angle DEF at 60° (red dot)
- Box 5: Angle ABC at 15° (blue dot)
- Box 6: Angle EDF at 52° (blue dot)
- Box 7: Angle LMN at 30° (blue dot)
- Box 8: Angle ABC at 65° (blue dot)

Maths On

<http://www.univie.ac.at/future.media/moe/>



A gallery of multimedia learning material

maths online

for school and distant learning

[Download](#)

Gallery

Multimedia learning units on mathematical subjects for secondary school, highschool, college, and university

Interactive tests

Maths links

[online tools](#) [topics](#) [collections](#)

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- [Formulae and the web: maths online HTML formula tool](#)
- [maths online Newsletter](#)
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[German version of maths online](#)
including material on the mathematical background

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- [Supporters, Partners and Awards](#)
- [Project documents](#)

Evaluation and feedback

- [Forum](#)
- [Questionnaire](#)

Puzzle workshop

- [Applet puzzle creation page](#)
- [Test puzzle creation page](#)
- [Puzzle links](#)

Suggestions for the classroom



Math2.org

(English | Español) – select language / Text only

//// Math Reference Tables

General

- [Number Notation](#)
- [Addition Table](#)
- [Multiplication Table](#)
- [Fraction-Decimal Conversion](#)
- [Interest](#)
- [Units & Measurement Conversion](#)

Algebra

- [Basic Identities](#)
- [Conic Sections](#)
- [Polynomials](#)
- [Exponents](#)
- [Algebra Graphs](#)
- [Functions](#)

Geometry

- [Areas, Volumes, Surface Areas](#)
- [Circles](#)

Trig

- [Identities](#)
- [Tables](#)
- [Hyperbolics](#)
- [Graphs](#)
- [Functions](#)

Discrete/Linear

- [Vectors](#)
- [Recursive Formulas](#)
- [Linear Algebra](#)

Other

- [Constants](#)
- [Complexity](#)

<http://math2.org/>

$$\text{cone} = \frac{1}{3} b h = \frac{1}{3} \pi r^2 h$$

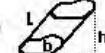

$$\text{sphere} = \frac{4}{3} \pi r^3$$


$$\text{ellipsoid} = \frac{4}{3} \pi r_1 r_2 r_3$$


Surface Areas

$$\text{cube} = 6 a^2$$


prism:
(lateral area) = perimeter(**b**) L

$$(\text{total area}) = \text{perimeter}(\mathbf{b}) L + 2\mathbf{b}$$


$$\text{sphere} = 4 \pi r^2$$


Math Play - Pythagorean Game

<http://www.math-play.com/Pythagorean-Theorem-Game.html>

In this Pythagorean Theorem game you will find the unknown side in a right triangle.

Pythagorean Theorem

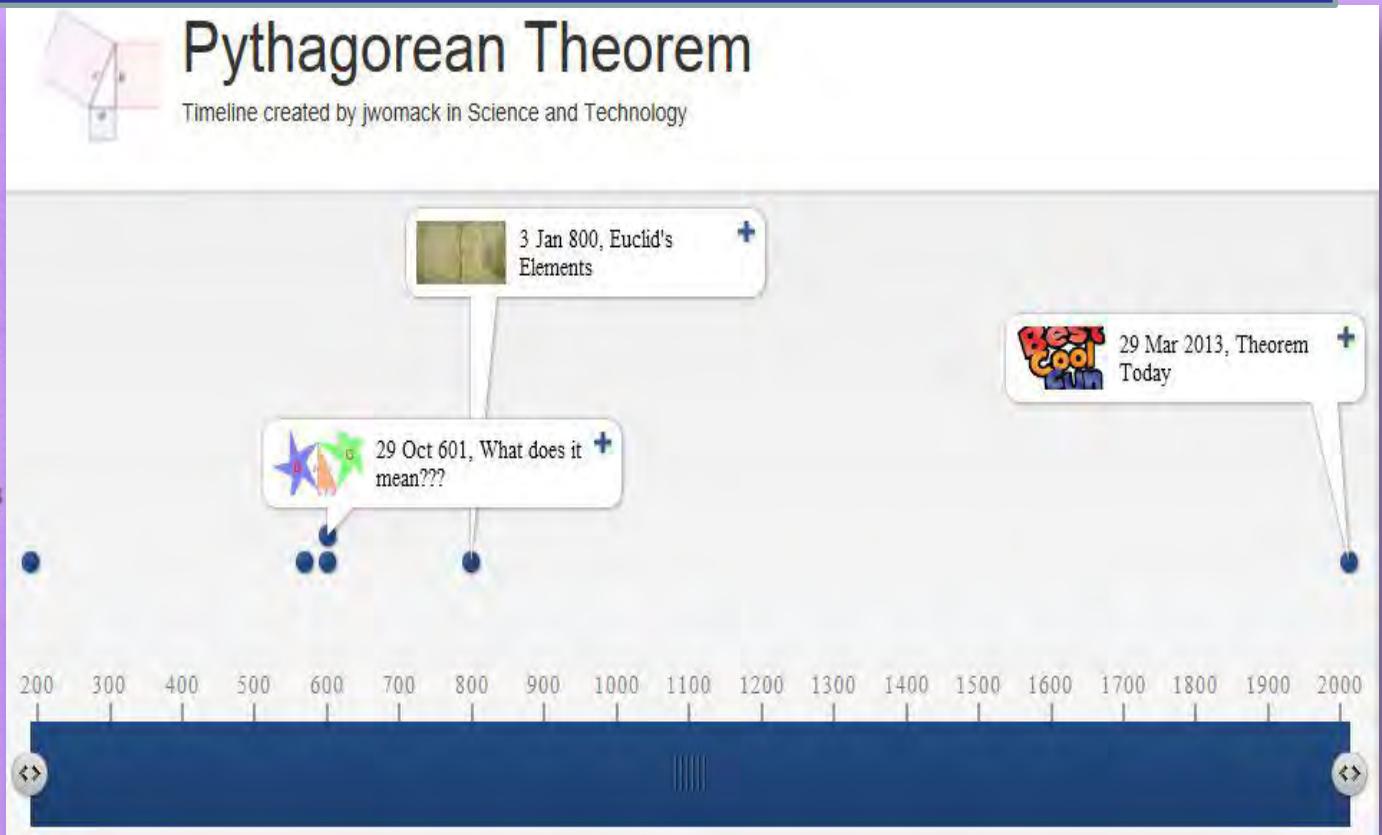


START

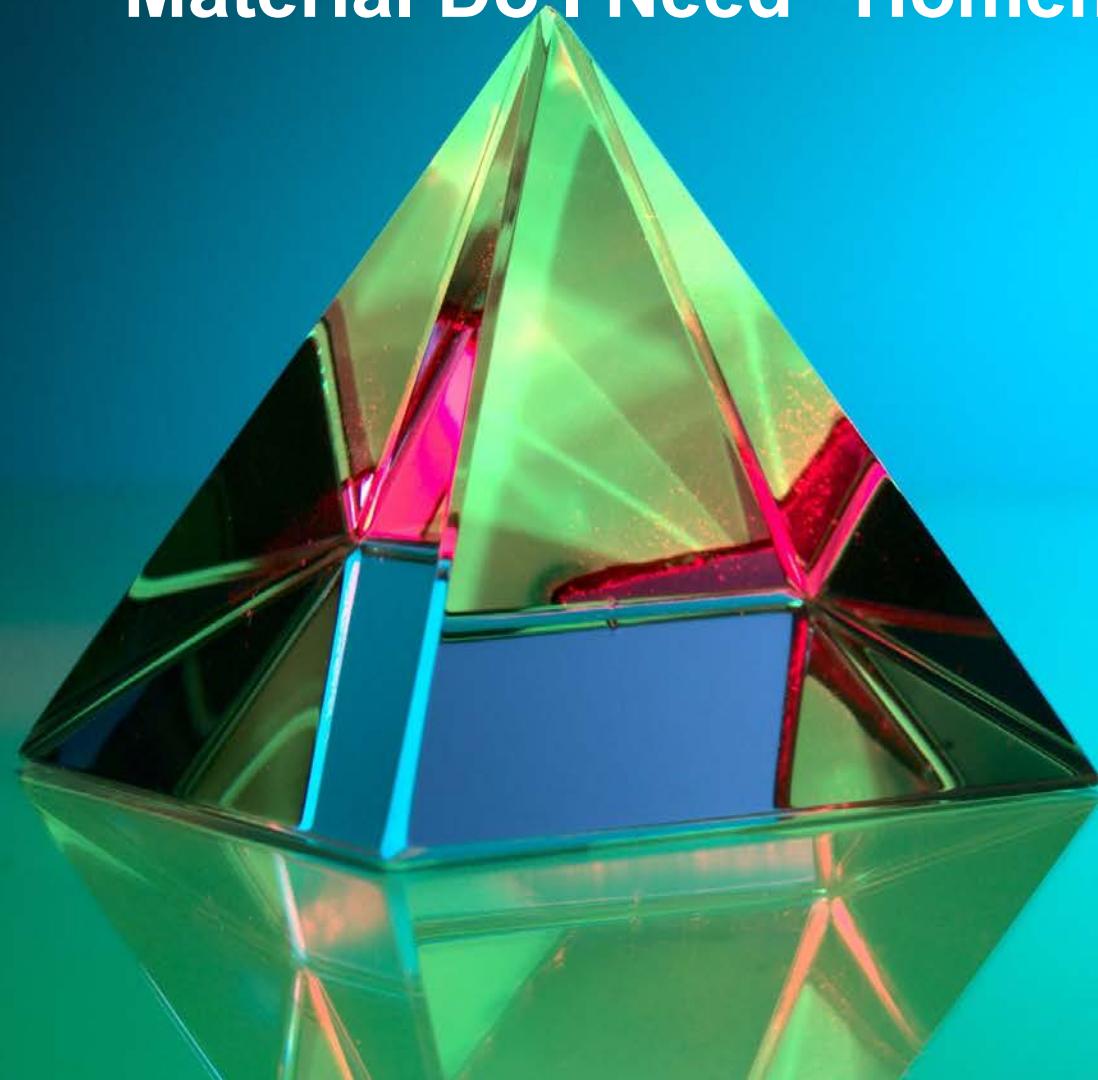
Click on start to begin the game.

TimeToast - Pythagorean Timelines

<http://www.timetoast.com/timelines/pythagorean-theorem--2>



Math Real World Situations - “How Much Material Do I Need” Homemade Activities



How much material do I need? - Activities

Objectives: The main objective is to engage students with math skills needed in various occupations especially in manufacturing, construction and healthcare workplaces. Students will learn to apply formulas and mathematical concepts to real-life situations and understand the useful Algebra can be in everyday home repair. How many of you have ever started and completed a home improvement project? Students will learn the various math skills necessary to complete such home repair projects as painting, wallpapering, tiling, laying flooring, etc. Students will learn how to save money on everyday projects and keep within budgets set for these projects.

Level/Subject: ABE/GED Math – algebra, formulas, word problems, measurement

Materials: Tactile items that relate to paper activity will help in instruction. For example: tape measure, ruler, medicine cups, etc. A calculator may aid in the computation of numbers, but it is up to the instructor whether or not one should be used. Newspaper Ads for paint, flooring, tiles, carpet, etc. with pricing and measurements. GED Formulas sheet, overheads, pictures and chalk board may also be used.

Procedure: Review formulas, shapes, and compare contrast perimeters, areas, and volumes. Allow students to work together on projects. Have students verbalize and work on paper with the problem-solving process first before working the calculations on calculators. Bring in rulers and other measuring tools. Have students estimate and then calculate with formulas on the GED Formula page needed for each example area question using simple shapes. Later, have students calculate how much it would cost for the materials and even labor to complete the work. Develop projects for students in as many home repair real-life situations as it takes to grasp the formula skills. Use painting, wallpapering, tiling, laying flooring, etc.

Follow-Up: Have students find and use the correct formulas to use for real-life situations. Work with students to practice all the formulas on the GED Formulas sheet. Work on a number of examples. Work with students to further skills in volume and finance formulas. Develop project that deal with skills from how much fencing, to how much interest. Teach students how important it is to measure accurately and save money on projects.

Floor Area – Square feet and yards

Find the floor area in square feet for each of the following floor plans.

Omit the closet area in #1 and the bathroom area in #3.

Formula for area of a rectangle: $A = L \times W$

Floor plan 1. _____

Floor plan 2. _____

Floor plan 3. _____

Find the floor area in square yards for each of the following floor plans.

Omit the closet area in #1 and the bathroom area in #3.

One square yard = 9 square feet

Floor plan 1. _____

Floor plan 2. _____

Floor plan 3. _____

1.



2.



3.

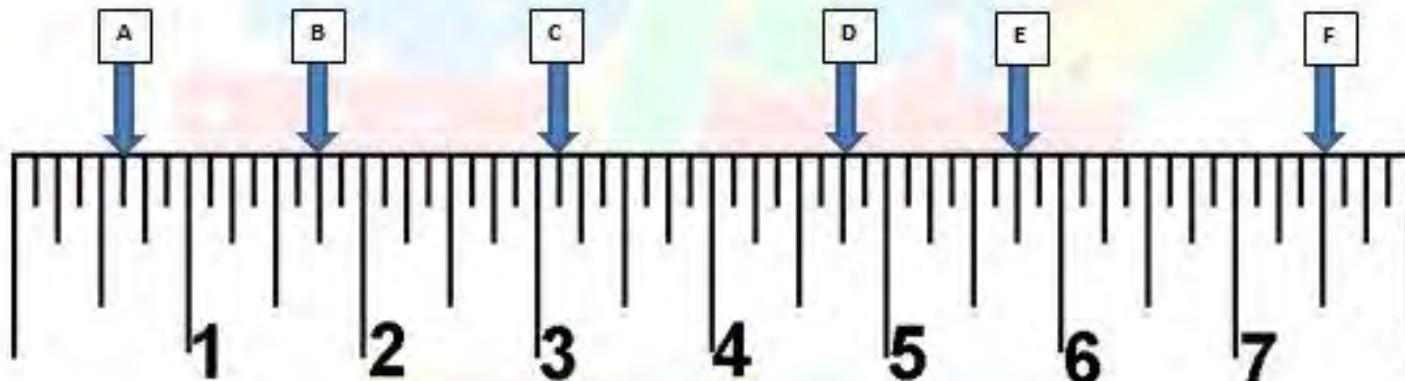


Ruler World

Write the fraction distance in the table for each letter from the left end of the ruler to the closest sixteenth of an inch.



I. Working with 1/8" measurements



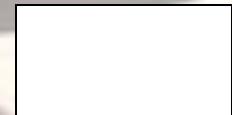
Working with sixteenths of an inch measurements			
Fraction Measurement		Fraction Measurement	
A		D	
B		E	
C		F	

How much paint?

The Perez Family on a budget wants to paint two bedrooms in their home. They want to paint the walls and the ceilings. They want to make sure that they have enough paint to finish the project with not a lot leftover because they are trying to keep cost low. The two rooms are identical in size, so we really only need to calculate the area to be painted in one room and multiply it by two. Calculating

the amount of paint you'll need for any project is simply a matter of coming up with the square footage to be covered. Below are some illustrations to help with visualization and calculations. The floor plan has the dimensions for each numbered wall and ceiling. Use the spaces below to record measurements and solution. Remember for painting you should round to the nearest foot. To make sure you have enough paint do not subtract any square footage for windows and doors unless they significantly reduce the square footage of that wall. One gallon of paint generally covers about 400 square feet. The area formula below will be helpful.

Formula: $\text{Area} = \text{Length} \times \text{Width}$



Length

Using all the information provided on this page. How many gallons of paint will the Perez Family have to buy to complete their project? Remember to use all information and draw to help evaluate.

Wall 1 width: _____

Wall 2 width: _____

Wall 3 width: _____

Wall 4 width: _____

Wall height: _____

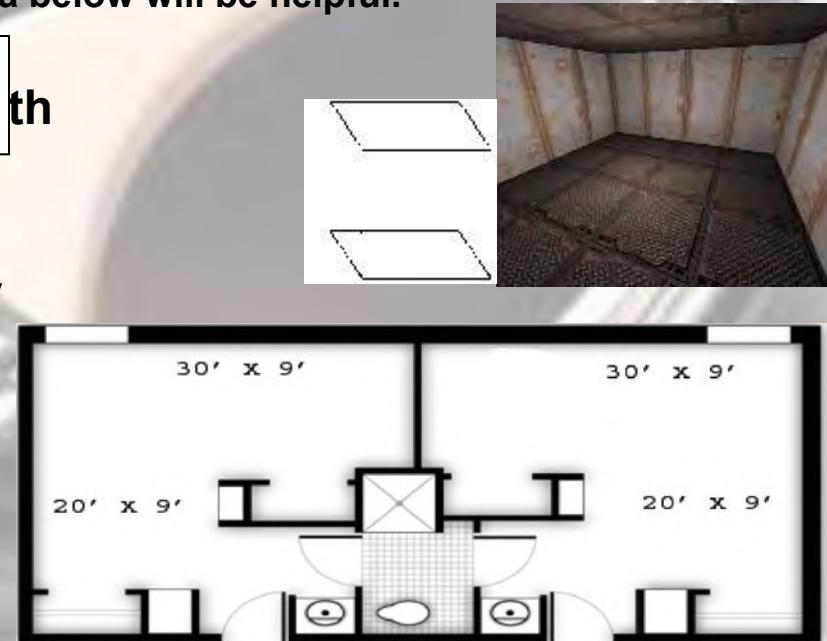
Ceiling:

Ceiling length: _____

Ceiling width: _____

Area to be painted: _____

Number of gallons needed: _____

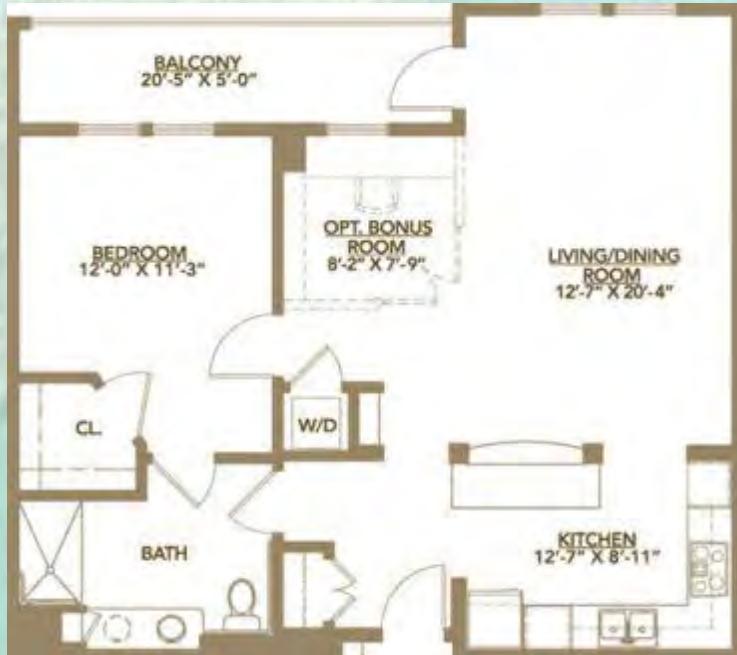


How much carpet?

Tammy and Mike want to carpet their living and dining room area. They want to come up with a quick estimate to make sure they could afford the project. They also want to make sure that they have enough carpet to finish the project. Getting a rough idea of how much carpet you will need for a project is pretty simple, but a precise figure is a little more difficult to come by. Calculating the amount of carpet you'll need and what it costs means coming up with the square footage and multiplying this measurement by the price per square yard. The price of carpet is usually expressed in square yards. A yard is 3 feet so a square yard equals 3 feet by 3 feet or 9 square feet.

Find the area in square footage for the Living/Dining room. After converting the square yards, calculate how much the carpeting will cost. One square yard of carpeting is \$9.99. Below are some illustrations to help with visualization and calculations. The floor plan has the dimensions needed to calculate the square footage of the area to carpet. Use the spaces below to record measurements and solution. You should round up to the nearest foot. The area formula below will be helpful.

Formula for area of rectangle: $A = L \times W$ and **square:** $A = Side^2$



Rectangle Width

Width: _____

Length

Length: _____

Square Side

Square feet needed:

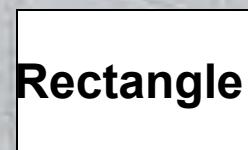
Side

Square yards needed:

How many tiles?

John wants to completely tile all the walls of his master bathroom. He wants to make sure that he has enough tiles to finish the project with only a few extra tiles for mistakes and replacement. Calculating the amount of tiles you'll need for any project is simply a matter of coming up with the square footage to be covered and the size of the individual tile. Below are some illustrations to help with visualization and calculations. The floor plan has the dimensions needed to calculate the square footage of the walls. Use the spaces below to record measurements and solution. Remember for tiling you want to over estimate so you have a few tiles extra. You should round up to the nearest foot. To make sure you don't buy too many tiles subtract any square footage for windows and doors. The area formula below will be helpful.

Formula: Area = Length x Width

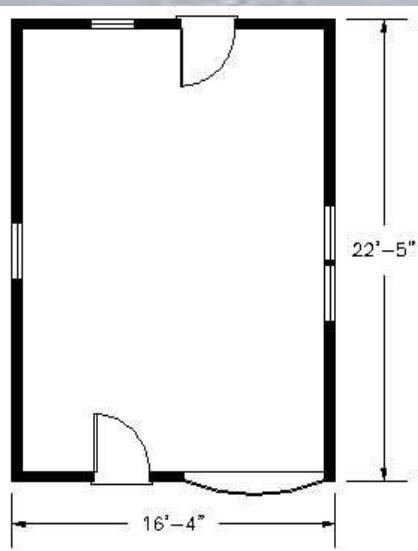


Square Side

Formula for area of rectangle: $A = L \times W$ and **square:** $A = Side^2$

Estimate the number of tiles you will need to complete your project. Using all the information provided on this page. How many tiles will John have to buy to complete his project? Your results will show both the number of square feet of tile you'll need and also the actual number of tiles in the size you specified.

Remember to use all information and draw to help evaluate.



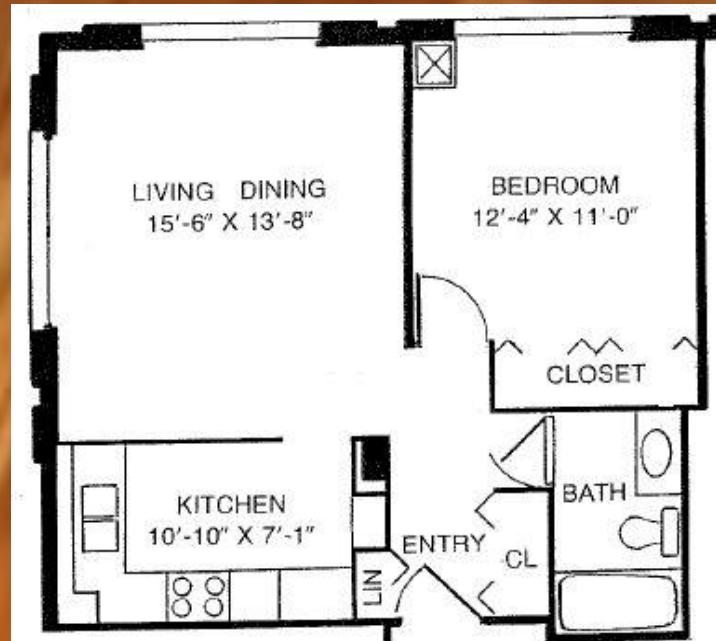
The Wilson's Need New Flooring

The Wilson's living and dining areas need new flooring. The carpeting has been removed and will be replaced with wood flooring. The area of flooring the Wilson's are replacing does not have any irregular dimensions. However, if your room has irregular dimensions, divide it into squares or rectangles and use the area formula to solve in each area add all the totals. How many square yards of wood flooring will they need to replace the flooring in the living and dining area? The wood flooring is sold in square yards, so you have to convert the measurement from square feet to square yards.

(Square Yard =1296 square inches or 9 square feet)

Rectangle Area Formula
Length x Width

Width
Length



Width: _____

Length: _____

Square yards needed: _____

Square feet needed: _____

How much wallpaper?

To estimate the amount of standard American wallpaper you'll need, first add up the lengths of all walls to get the distance around the room and enter this figure as the perimeter of the room. Round off to the nearest foot. Next, enter the number of single doors (about 20 square feet), the number of double doors (about 40 square feet), small windows (10 square feet) and large windows (25 square feet). Also enter the square footage of any other openings or areas not to be wallpapered – such as a fireplace.

Next enter the size of the roll of the paper you're using in square feet, and click on "calculate." The calculator will tell you how many rolls of that size are needed. A standard American roll of wallpaper gives you about 35 square feet.

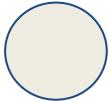
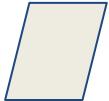
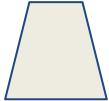
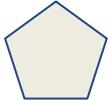
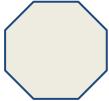
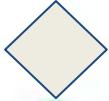
To make sure you have enough paper with the least amount of waste subtract any square footage for windows and doors that significantly reduce the square footage of that wall. Fill in the information below. Use floor plan below for measurements for calculations.

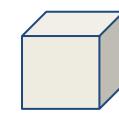


Room perimeter:	Wall height:
_____ ft.	_____ ft.
Single doors:	Double doors:
_____ 20 sq. ft.	_____ 40 sq. ft.
Small windows:	Large windows:
_____ 10 sq. ft.	_____ 25 sq. ft.
Other areas:	Roll size:
_____ sq. ft.	_____ sq. ft. per roll

Rolls needed: _____

Formulas: Working with shapes

Name the Shape	Draw or Drag the Shape	Perimeter	Area or Volume	Surface Area	Weight
					
					
					
					
					
					
					





Math Real World Situations - Tables, Formulas, Conversions Homemade Activities

Then and Now – 1913's prices verses today's

Prices in 1913 were very different than today's prices. Listed below are some items and their prices in 1913 to shopping today, use the internet to find the cost of the items under today's prices, then figure out the percentage increase between 1913 and today.

<u>Items</u>	<u>1913 Prices</u>	<u>Items</u>	<u>Today's Prices</u>	<u>Percentage Increase</u>
1 dozen eggs	38 cents (.38)	1 dozen eggs		
Loaf of bread	6 cents (.06)	Loaf of bread		
Compact Car	\$1150.00	Compact Car		
Girl's Dress	\$1.65	Girl's Dress		
Baseball	\$1.15	Baseball		
Bicycle	\$11.95	Bicycle		
Crayons (28 Colors)	4 Cents (.04)	Crayons (28 Colors)		

How much is a Gallon?

Most of us are aware of the cost of a gallon of gas or milk. However, it would be interesting to calculate the cost of a gallon of other frequently used items.

Complete the chart below.

Remember, like in real life situations units of measurement are not always the same. Look at the conversions below the table for help.

<u>Use conversions below</u>
1 pint = 16 ounces (oz.)
1 quart = 32 ounces
1 gallon = 128 ounces
1 gallon = 4 quarts

<u>Item</u>	<u>Price per Container Unit</u>	<u>Price per Gallon</u>
Diet Coke	16 oz. for \$1.29	
Half & Half	1 pint for \$ 1.99	
Ice Tea	16 oz. for \$1.19	
Apple Juice	20 oz. for \$1.59	
Tomato Juice	1 quart for \$1.99	
Flavored Water	16 oz. for \$1.25	
Pint of milk	16 oz. for \$1.59	
Olive oil	1 pint for \$3.99	

Recipe for Four - Steak for One

Breaded Steak recipe (Bistec Empanizado) - serves 4

4 steaks (1/4 inch thick) _____
1/2 cup onion, chopped _____
1 tbsp fresh garlic, minced _____
1/4 cup sour orange juice _____
1/4 tsp salt _____
4 eggs, beaten well _____
1 cup finely ground crackers, salt to taste _____
1/2 onion, sliced into rings _____
Olive oil _____

Sprinkle steaks with chopped onion, garlic, orange juice and salt. Rub garlic into meat. Marinate for a few hours in the refrigerator. Brush off the onion pieces and dip each steak into the egg to make sure it's fully coated. Dip the steak into the crackers, making sure that the ground crackers completely cover the steak. Fry the steaks in cooking oil on medium heat until golden brown and well done. Serve with a few onion rings.

A bachelor has to convert a recipe his mother gave him for breaded steaks. The recipe that serves four will have to be changed to serve one.

A bachelor's cooking utensils are limited. There are no tablespoons and measuring cups in this house. Teaspoons and shot glasses have to be used as substitutes.

Rewrite the recipe so the measured ingredients only make enough breaded steak to serve one? Measurement conversions needed below.

1 US tablespoon = 3 US teaspoons

One shot = one ounce

One cup = 8 ounces

Sale Price & Coupons

Formula = two steps:

$$\text{Regular Selling Price} \times \text{Markdown} = \text{Sale Price}$$

$$\text{Sale Price} \times \text{Coupon Markdown Rate} = \text{Final Sale}$$

54.4

9.89
4

MACY'S SAVINGS PASS
Use this savings pass over & over in store
Tuesday-Thursday, December 12-14

take an extra 20% Off
REGULAR, SALE & CLEARANCE APPAREL, HANDBAGS & ACCESSORIES FOR HER, HIM & KIDS

take an extra 10% Off
REGULAR, SALE & CLEARANCE MERCHANDISE FOR HER, HIM & HOME INCLUDING:
Women's suits, coats, lingerie & sleepwear; shoes for her & him; fine bridge & fashion jewelry; men's pants, tailored clothing & topcoats.

 macy's

SCAN MY MERRY PASS. SCAN BAR CODE LAST TIME I USED IT.

00034803000329282709

	Item	Regular Selling Price	X	Markdown Rate	=	Markdown	Sale Price	Coupon Mark-down 25%	Price After 25% Coupon = Final Sale Price
1.	Ralph Lauren Cologne	\$110.00	X	0%	=				
2.	Skechers Shoes	\$69.99	X	10%	=				
3.	Nike Socks 6 pack	\$12.99	X	20%	=				
4.	Carry-on Luggage	\$59.00	X	10%	=				
5.	Fossil Watch	\$90.00	X	10%	=				

Writing Formulas

Example:

The total price \times sales tax percentage = sales tax amount

Sales tax amount = the total price \times sales tax percentage

Sales tax amount = \$50 \times 6.5%

Sales tax amount = \$50 \times 0.065

1. Write a formula for the total price of two items.

Item A = \$5.00 and item B = \$6.65. Write the formula in words and in numbers.

2. Write a formula for the total price of 6 of the same item. Item C = \$8.40. Write the formula in words and in numbers.

3. Write a formula for the total price of 6 of the same item with tax. Item D = \$4.00 and the sales tax = 6%. Write the formula in words and in numbers

$$s^2 = \frac{\sum x^2 - (\bar{x})^2}{n - 1}$$

JU - J

Fahrenheit & Celsius in Cooking

Complete the chart below by finding the missing temperatures using the formulas below. Estimated Cooking Temperature in Celsius and Fahrenheit

<i>Fahrenheit & Celsius in Cooking</i>	Celsius	Fahrenheit
Formulas	$C = \frac{5}{9}(F - 32)$	$F = \frac{9}{5}C + 32$
Beef Steak - Medium Rare	65	
Beef Steak - Medium		158
Beef Steak - Well Done	75	
Ground Beef		158
Chicken		185
Turkey		185
Pizza (oven)	230	
Ham (oven)		400
Salmon (oven)	110	

Xs and Ys

Use the math clue words to setup the expression and the select from the six possibilities: i. - vi.

Complete Activity Below					
Choose from the operations below to answer questions in column A.					
#	Column A	Column B	#	Column A	Column B
1	iii.	Y decreased by X	13		Ratio of X to Y
2		X goes into Y	14		X more than Y
3		X times Y	15		X added to Y
4		Difference between X and Y	16		Y less than X
5		X multiplied by Y	17		X reduced by Y
6		Quotient of X and Y	18		X increased by Y
7		X divided into Y parts	19		Subtract X from Y
8		Product of X and Y	20		Exceeds Y by X
9		Divide X into Y	21		Y subtracted by X
10		X divided by Y	22		X greater than Y
11		Y less than X	23		Difference of X and Y
12		Sum of X and Y	24		Divide X by Y

Solutions:

Complete Activity Below					
Choose from the operations below to answer questions in column A.					
#	Column A	Column B	#	Column A	Column B
1	iii.	Y decreased by X	13	v.	Ratio of X to Y
2	vi.	X goes into Y	14	ii.	X more than Y
3	iv.	X times Y	15	i.	X added to Y
4	ii.	Difference between X and Y	16	ii.	Y less than X
5	iv.	X multiplied by Y	17	ii.	X reduced by Y
6	v.	Quotient of X and Y	18	i.	X increased by Y
7	vi.	X divided into Y parts	19	iii.	Subtract X from Y
8	iv.	Product of X and Y	20	i.	Exceeds Y by X
9	vi.	Divide X into Y	21	iii.	Y subtracted by X
10	v.	X divided by Y	22	ii.	X greater than Y
11	ii.	Y less than X	23	ii.	Difference of X and Y
12	i.	Sum of X and Y	24	v.	Divide X by Y

Electrician's Math

Electricians design, develop, test, or supervise the manufacturing and installation of electrical equipment, components, or systems for commercial, industrial, military, or scientific use. Use the formulas and a calculator if needed to complete conversions below.

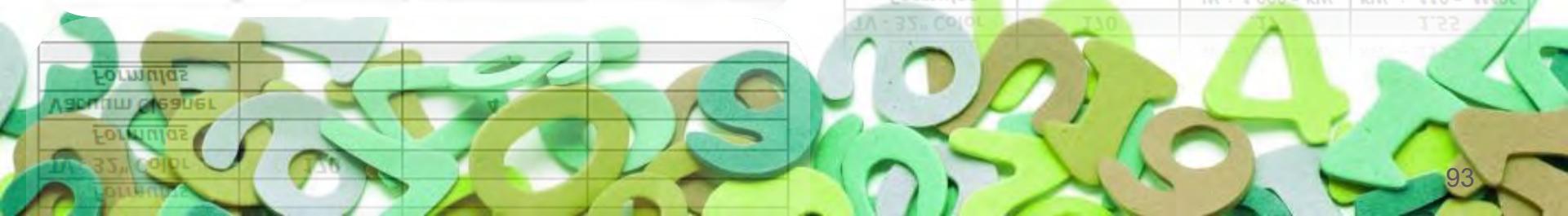
Electrician's Formulas

$W \div 110 = \text{AMPS}$	$W \div 1,000 = \text{KW}$	$KW \div .110 = \text{AMPS}$
$\text{AMPS} \times 110 = W$	$KW \times 1,000 = W$	$\text{AMPS} \times .110 = KW$

Electronic Item	Watts/W	Kilowatts/KW	Amperes/AMPS
Dishwasher	400	.4	3.6
Formulas		$W \div 1,000 = KW$	$KW \div .110 = \text{AMPS}$
Electric Grill			15
Formulas			
Electric Oven	7500		
Formulas			
Garbage Disposal			6
Formulas			
Microwave		16	
Formulas			
Refrigerator			8
Formulas			
Toaster	700		
Formulas			
TV - 32" Color	170		
Formulas			
Vacuum Cleaner		4	
Formulas			

Solutions

Electronic Item	Watts/W	Kilowatts/KW	Amperes/AMPS
Dishwasher	400	.4	3.63
Formulas		$W \div 1,000 = KW$	$KW \div .110 = \text{AMPS}$
Electric Grill	1650	1.65	15
Formulas		$KW \times 1,000 = W$	$\text{AMPS} \times .110 = KW$
Electric Oven	7500	7.5	68.18
Formulas		$W \div 1,000 = KW$	$KW \div .110 = \text{AMPS}$
Garbage Disposal	660	.66	6
Formulas		$\text{AMPS} \times .110 = W$	$\text{AMPS} \times 110 = KW$
Microwave	16000	16	145.45
Formulas		$KW \times 1,000 = W$	$KW \div .110 = \text{AMPS}$
Refrigerator	880	.88	8
Formulas		$\text{AMPS} \times .110 = W$	$\text{AMPS} \times 110 = KW$
Toaster	700	.70	6.36
Formulas		$W \div 1,000 = KW$	$KW \div .110 = \text{AMPS}$
TV - 32" Color	170	.17	1.55
Formulas		$W \div 1,000 = KW$	$KW \div .110 = \text{AMPS}$
Vacuum Cleaner	4000	4	36.36
Formulas		$KW \times 1,000 = W$	$KW \div .110 = \text{AMPS}$



Order Form

Directions: On each line below, type in the items including price. Then add up your order and pay the cashier for your purchases.

#	Name of Item	Quantity	Price
1.			
2.			
3			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
Total:			
Amount Given:			
Change:			

UNDERSTANDING MAPS AND GLOBES



Materials: 6-8 maps of various parts of the globe. They could be maps of different regions of the US or of different regions of the world. You will also need rulers (one for each student). Optionally, you will need 6-8 calculators (one for each group—if you allow your Ss to use calculators).

Procedure: Ss will use the maps and rulers to find the distance between pairs of map points. To do so, they will first need to locate the scale of the particular map that they are working with.

Time: 45 minutes to an hour, depending on how big you make the groups in your class or whether or not you have your Ss work in pairs or by themselves.

Variations: Globes could be substituted for maps for this lesson. You could also specify which method of mathematics you would like your Ss to use when figuring out the distances.

NAME _____ DATE _____

MAP SCALE: FINDING DISTANCES ON A MAP

LOCATE THE SCALE ON THE MAP THAT YOU AND YOUR PARTNER(S) ARE ASSIGNED. YOU WILL USE THIS SCALE IN ORDER TO DETERMINE THE APPROXIMATE DISTANCE AND THE EXACT DISTANCE BETWEEN TWO POINTS ON THE MAP. USE THE FOLLOWING PROPORTION TO DETERMINE DISTANCES:

$$\frac{\text{ONE INCH}}{\text{SCALE}} = \frac{(\text{NUMBER OF INCHES})}{X}$$

MAP # 1: WASHINGTON, OREGON, IDAHO, MONTANA, WYOMING

MAP LOCATION POINTS	APPROXIMATE DISTANCE	EXACT DISTANCE
1. SEATTLE, WA—JACKSON, WY		
2. YELLOWSTONE LAKE, WY—CRATER LAKE, OR		
3. PORTLAND, OR—BOISE, ID		
4. VANCOUVER, BC—VANCOUVER, WA		
5. COOS BAY, OR—BIRCH BAY, WA		
6. BILLINGS, MT—EUREKA, CA		
7. KLAMATH FALLS, OR—IDAHO FALLS, ID		
8. BUTTE, MT—YAKIMA, WA		

A. ANKENY, IA—ELGIN, IL		
B. IDAHO FALLS, ID—TUCSON, AZ		
C. BILLINGS, MT—EUREKA, CA		



MAP SCALE: FINDING DISTANCES ON A MAP

Locate the scale on the map that you and your partner(s) are assigned. You will use this scale in order to determine the approximate distance and the exact distance between two points on the map. Use the following proportion to determine distances:

$$\frac{\text{One Inch}}{\text{scale}} = \frac{(\text{Number of Inches})}{X}$$

Map # 1: Washington, Oregon, Idaho, Montana, Wyoming

Map Location Points	Approximate Distance	Exact Distance
1. Seattle, WA—Jackson, WY		
2. Yellowstone Lake, WY—Crater Lake, OR		
3. Portland, OR—Boise, ID		
4. Vancouver, BC—Vancouver, WA		
5. Coos Bay, OR—Birch Bay, WA		
6. Billings, MT—Eureka, CA		

MAP SCALE: FINDING DISTANCES ON A MAP

LOCATE THE SCALE ON THE MAP THAT YOU AND YOUR PARTNER(S) ARE ASSIGNED. YOU WILL USE THIS SCALE IN ORDER TO DETERMINE THE APPROXIMATE DISTANCE AND THE EXACT DISTANCE BETWEEN TWO POINTS ON THE MAP. USE THE FOLLOWING PROPORTION TO DETERMINE DISTANCES:

$$\frac{\text{ONE INCH} = (\text{NUMBER OF INCHES})}{\text{SCALE} \quad X}$$

MAP # 7 ILLINOIS, INDIANA, OHIO, KENTUCKY

MAP LOCATION POINTS	APPROXIMATE DISTANCE	EXACT DISTANCE
1. CHICAGO, IL-CARBONDALE, IL		
2. LOUISVILLE, KY-CLEVELAND, OH		
3. ST. LOUIS, MO-INDIANAPOLIS, IN		
4. TOLEDO, OH-PEORIA, IL		
5. FT WAYNE, IN-PADUCAH, KY		
6. KALAMAZOO, MI-LEXINGTON, KY		
7. SPRINGFIELD, IL-PITTSBURG, PA		
8. AKRON, OH-CHAMPAIGN, IL		

8. NEWARK, NJ-NIAGARA FALLS, NY

9. GREENSBORO, NC-CHARLOTTE, NC

10. JACKSONVILLE, FL-MONTGOMERY, AL

MAP SCALE: FINDING DISTANCES ON A MAP

LOCATE THE SCALE ON THE MAP THAT YOU AND YOUR PARTNER(S) ARE ASSIGNED. YOU WILL USE THIS SCALE IN ORDER TO DETERMINE THE APPROXIMATE DISTANCE AND THE EXACT DISTANCE BETWEEN TWO POINTS ON THE MAP. USE THE FOLLOWING PROPORTION TO DETERMINE DISTANCES:

$$\frac{\text{ONE INCH} = (\text{NUMBER OF INCHES})}{\text{SCALE} \quad X}$$

MAP # 12 NEW HAMPSHIRE, VERMONT, MASSACHUSETTS, RHODE ISLAND, CONNECTICUT

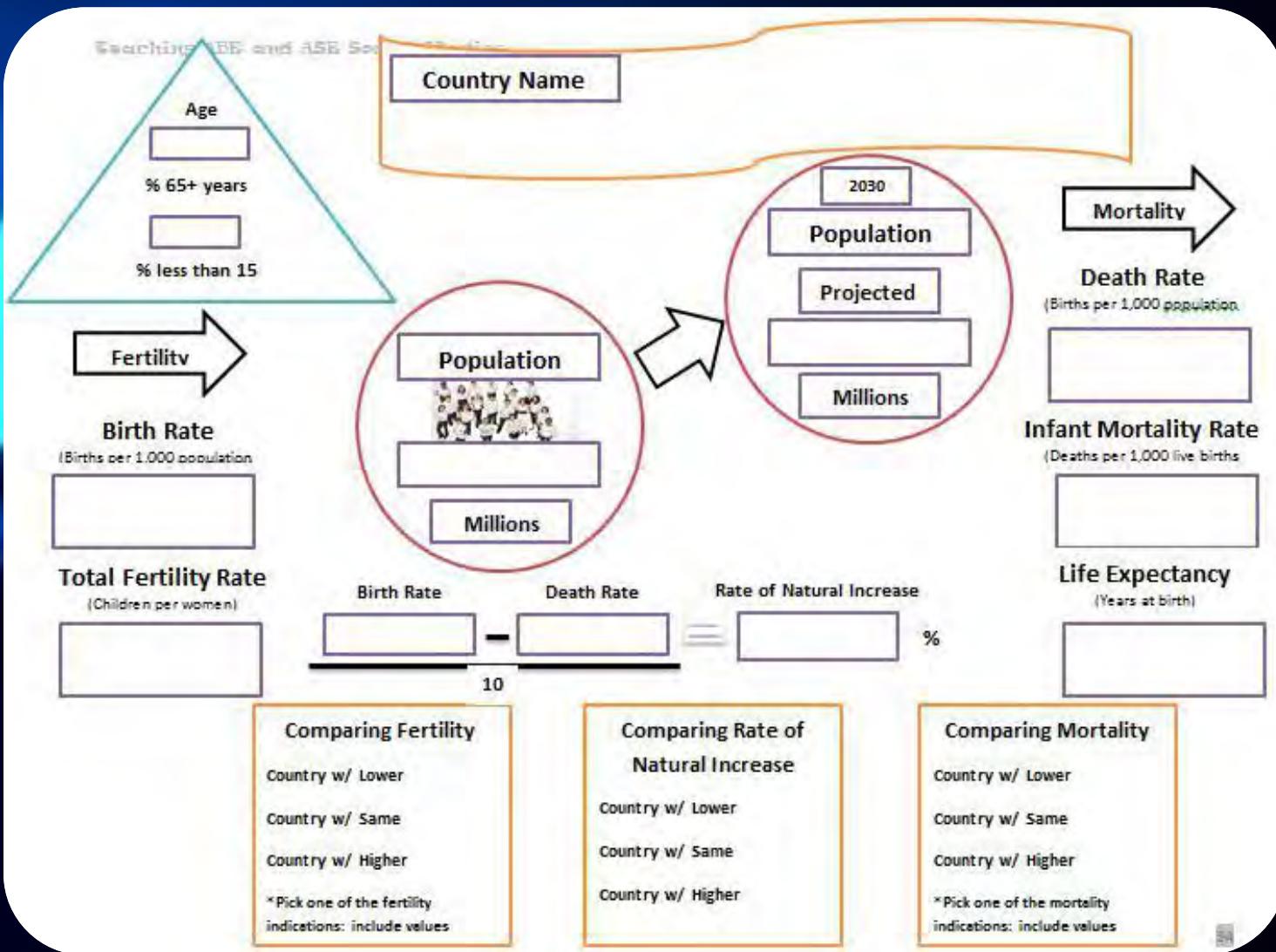
MAP LOCATION POINTS	APPROXIMATE DISTANCE	EXACT DISTANCE
1. AMHERST, MA-BURLINGTON, VT		
2. BOSTON, MA-NEW YORK, NY		
3. PORTLAND, ME-NEW HAVEN, CT		
4. MANCHESTER, NH-WORCESTER, MA		
5. HARTFORD, CT-ALBANY, NY		
6. PORTSMOUTH, NH-PROVIDENCE, RI		
7. MARTHA'S VINEYARD, MA-NANTUCKET ISLAND, MA		
8. NEWPORT, RI-BRIDGEPORT, CT		

1. NEW YORK CITY-BRIDGEPORT, CT

2. NEW YORK CITY-PROVIDENCE, RI

3. NEW YORK CITY-BOSTON, MA

In Motion Timeline



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Math Real World Situations - Money, Financial Literacy Homemade Activities

Penny Heads or Tails

Ten Toss Probabilities: Use the interactive coin toss at Shoder.org website

Hold down CTRL key and click on link

☞ <http://www.shodor.org/interactivate/activities/Coin/>

1. **Predict:** How many heads and how many tails will show up if you flip the coin 10 times?
Why?



	Heads (Blue)	Tails (Red)
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

Money - What's Probable?

Money – Coin and Paper



1. In two tosses of the same penny, what are the chances they will both be heads?

- a. $\frac{1}{8}$
- b. $\frac{1}{4}$
- c. $\frac{1}{2}$
- d. $\frac{1}{16}$
- e. 1

2. In two tosses of the same penny, what are the chances that you will get a combination of one head and one tail?

- a. 2 out of 4
- b. 3 out of 4
- c. 1 out of 8
- d. 4 out of 4
- e. 4 out of 8

3. In three tosses of the same penny, what are the chances of getting three tails?

- a. 1 out of 4
- b. 1 out of 9
- c. 1 out of 3
- d. 1 out of 6
- e. 1 out of 8

4. Beth has 14 coins in her pocket. The probability of pulling out a penny is $\frac{1}{2}$. How many pennies are in her pocket? Express the probability in three ways:

- a. Express as a fraction
- b. Express as a decimal
- c. Express as out of

5. Edward has 2 nickels in his pocket. The probability of him pulling out a nickel is $\frac{1}{4}$. How many coins are in this pocket?

Express the probability of pulling out a nickel in three ways:

- a. Express as a fraction
- b. Express as a decimal
- c. Express as out of

6. Tom has less than 12 nickels, dimes, and quarters in his pocket. The probability of pulling out a nickel or a quarter is $\frac{3}{4}$. The probability of pulling out a dime is $\frac{1}{4}$. How many coins does Gene have in his pocket?

How many of each does he have?

- a. Nickels
- b. Dimes
- c. Quarters

7. Anthony tosses of the same penny twice, what are the chances they will both be tails?

Answer:



CREDIT CARD COMPARISON & EVALUATION

PART 1: Evaluate three different credit card applications AND determine the total cost of an item purchased on credit at three different rates of interest.

	Card 1	Card 2	Card 3
Annual Fee			
Annual Percentage Rate			
Finance Charge			
Grace Period			
Incentives			
Transaction Fees			

What card would you choose? CARD 1

CARD 2

CARD 3

Explain why would you choose this card?

PART 2:



Laptop
\$832.00



Plasma TV
\$1,267.00



iPod
\$135.00

1. Circle the item you choose to purchase.
2. Determine the total cost of the item if purchased at three different rates of interest.
Assume it takes three years to pay off.

Item	Annual Percentage Rate	Total Cost
	12%	
	17%	
	24%	

Budget Scenarios

Scenario 1:

Josie Lim has no children but is used to working long hours and never getting errands done. She lives in a tiny studio apartment near Lincoln Park, (\$1000/month) but longs to have a house of her own. Josie eats out a lot (7 meals a week @ an average of \$7 each meal), takes her clothes to a laundry service (\$0.60 a pound @ 20 pounds every 10 days), belongs to a health club (\$475/month) and parks in parking garages all day while she works in the loop (\$14.70/day). Even though she is a third year apprentice and makes \$19.00 an hour, she never seems to have money left over. What are some things Josie can do to start saving up for a down payment on a house someday?

Scenario 2:

Ivette Jones loves to read and always buys the latest popular books as soon as they come out, usually in hardcover (\$22-\$35/book). She reads very fast so most of the time she goes through 2 to 3 books a week. Ivette's favorite place to read is Starbucks, where she spends hours a day after work (3 times a week at least) just drinking and reading (\$4/cup @ 2-3 cups a day). She lives alone in a garden apartment (\$500/month) and takes the bus to work every day (\$3/day). Her boss will let her change her schedule to fit around her pre-apprenticeship program once she gets in. She will be working 10 hours or so a week instead of 40 hours. At \$8.00 an hour, that's \$80 a week she'll be making (\$52 a week take home after taxes). How can Ivette cut corners to compensate for unpaid pre-apprenticeship time?



Math Games - Homemade Activities

3 on 3

Try to fill in the missing numbers in the puzzle below

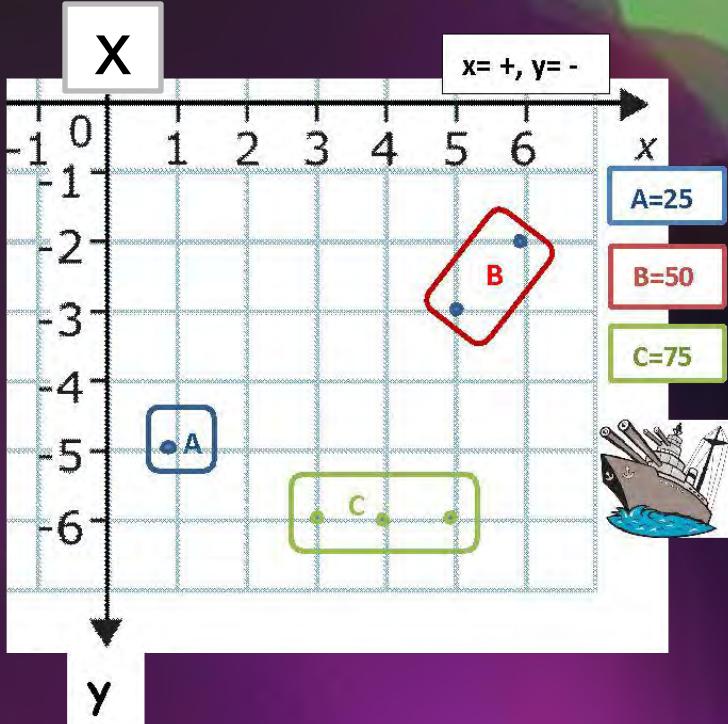
	-		x			-31
x		x		x		
	-		/			-2
+		+		+		
	-		+			4
7		38		23		

Use the numbers 1 through 9 to complete the equations.

Each number is only used once.

Each row is a math equation. Each column is a math equation.

Remember that multiplication and division are performed before addition and subtraction.



Battleship

A Coordination Game



Practice for a
X and Y Journey



GAMES OF FIFTEEN



A game for two players – choose a version to play

The object of the game is to be the first player to create a line of 3 cards that add up to 15. The line can be vertical, horizontal or diagonal. The line can be made up of cards place by both players or only one taking turns.

Version 1: Place the number cards face down beside the board. Players take turns to pick a card and place it in a square.

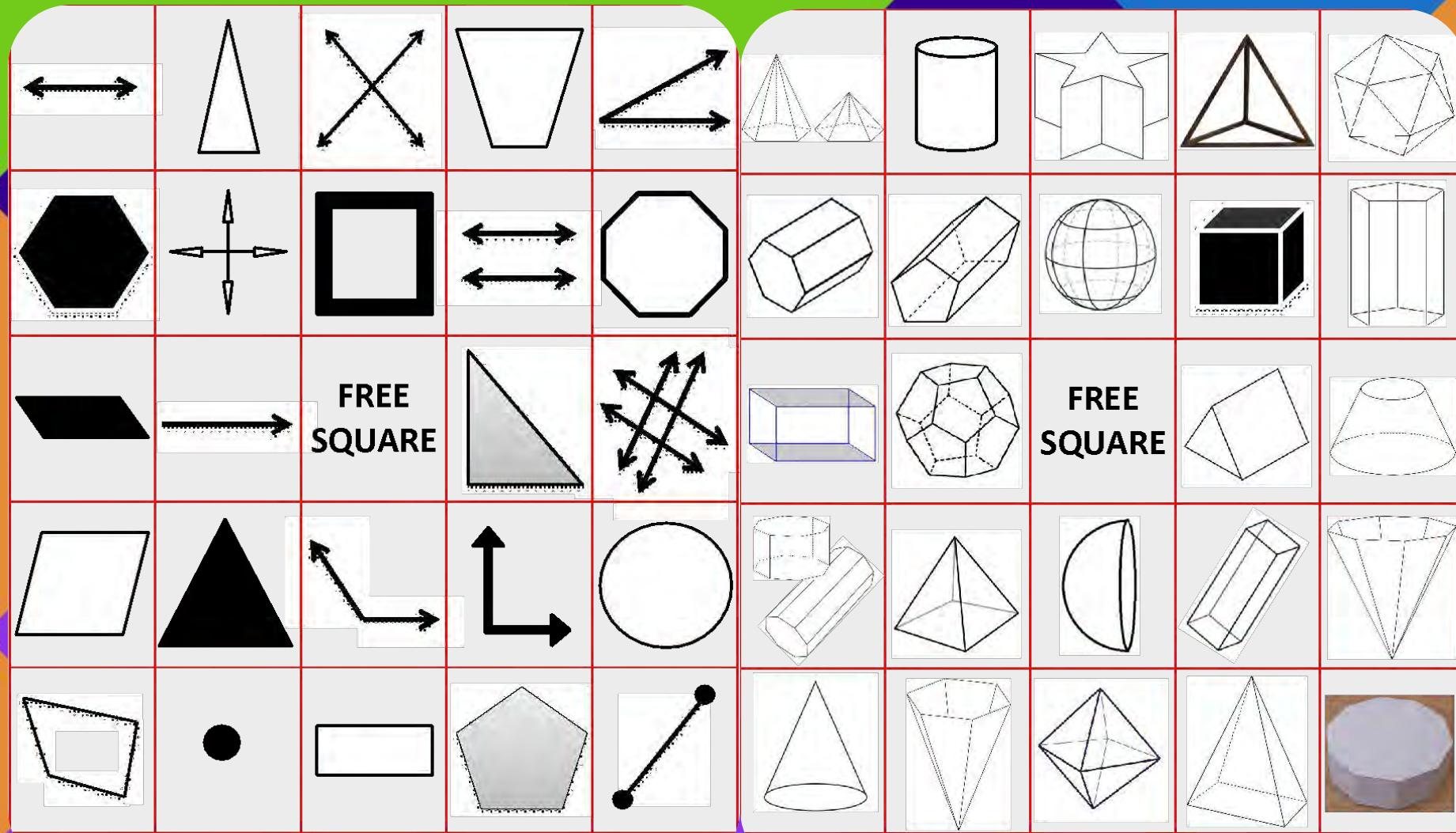
Version 2: Place the number cards face up beside the board. Players take turns to choose a card and place it in a square.

Using the numbers 1, 2, 3, 4, 5, 6, 7, 8, and 9, place the numbers in the proper boxes within the square so that each of the rows—vertical, horizontal, and diagonal—adds up to 15. Use each number once only.



GEOBINGO

3DINGO



Fraction Flip It A fractions game for multiplying fractions....

Skills: Multiplying and or Dividing Fractions

Number of Players: 2

What You Need: Deck of playing cards, Fraction Flip It game sheet for each player, paper and pencil for each player, directions

Preparation: Remove the face cards from the deck. Print out a copy of the game sheet for each player.

Object of Game: To see who can earn the *most* points by correctly multiplying fractions.

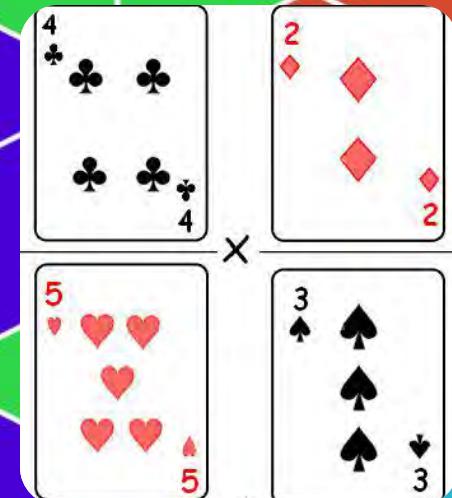
How to Play:

1. Shuffle the cards and stack them face down.
2. Player 1 draws the top card and places it on the game sheet.
3. Players continue drawing cards and placing them until they have filled all four spaces.....

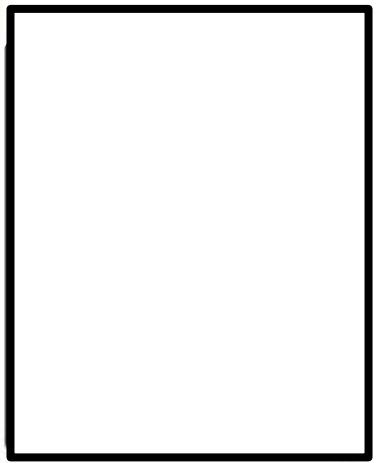
Take a look at an example below....

Each player takes turns drawing one card at a time. After each card they draw, they place the card in one of the four empty rectangles on their game sheet. Each player continues drawing in turn until all players have four cards placed in all four spaces on their game sheets.

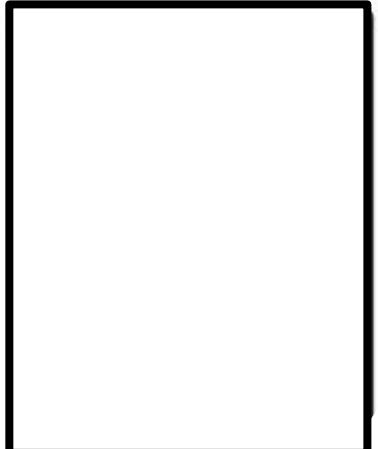
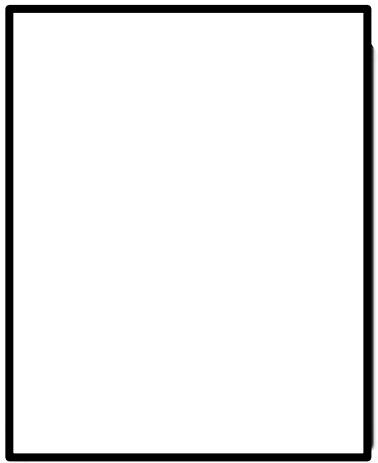
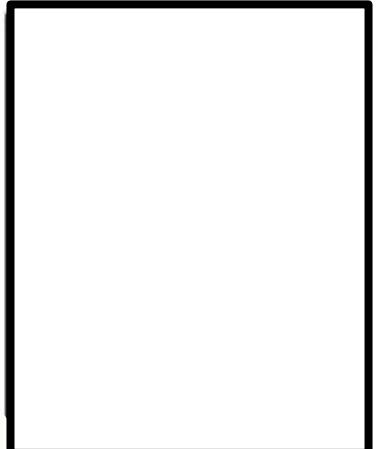
In this example player 1 has placed his cards on his game sheet in the spots pictured below. Player 1 will then write their multiplication statement on their paper and solve it. The correct answer that player 1 should write down on his paper for this round would be $\frac{8}{15}$ (eight-fifteenths).



<https://www.random.org/playing-cards/>



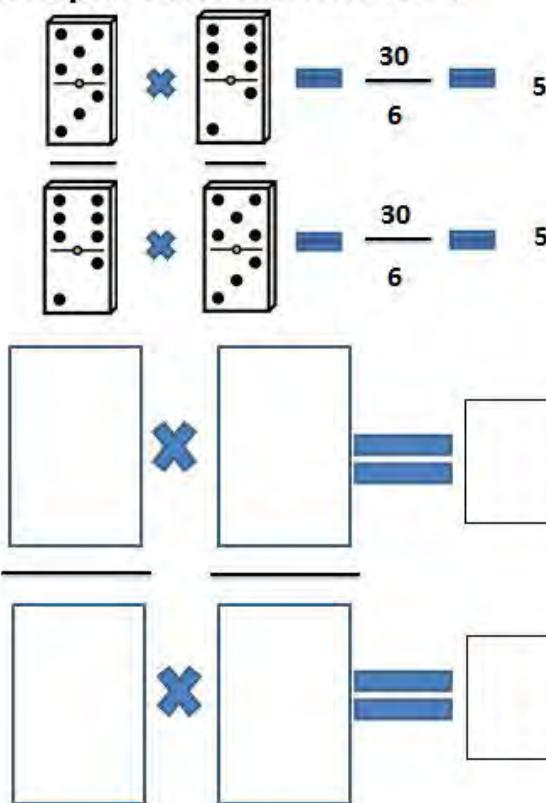
\times



Fraction Flip It – Working Table		
4 Card Draws	Work	Answer
#1		
#2		
#3		
#4		
#5		

<http://random-cards.com/1-shuffled-deck/>

Multiplication Dominoes



Multiplication Dominoes

Directions:

1. Mix up fraction dominos face down, have each player pick eight.
2. Keep the dominos face down.
3. Select two or four depending on what you want to solve.
4. Turn the dominos face up and place them in order one-by-one in the squares provided in a clockwise fashion.
5. Solve for each domino fraction.
6. Do not write in the squares provided for the answer, instead select cutout number squares to interpret your answer.
7. Your competition will check the answer and challenge it if needed, working out the result on paper or on a calculator.
8. 5 points for one correct answer and ten points for two.
9. Keep track of points and more below.

Player 1		Player 2	
Solving 1 fraction 5 points	Solving 2 fraction 10 points	Solving 1 fraction 5 points	Solving 2 fraction 10 points

Setting the Basic Rules for Math and Dice



Before you start playing, you should agree with your partner on some of the basic Math and Dice rules. Here are the rules you need to agree on.

- How to get the Target Number. Will you add the Target Dice or multiply them together?
- What operations you're allowed to use. All games use addition, subtraction, and multiplication. Will you allow division? Will you allow exponents?
- Can you use pencil and scratch paper to help you play? Can you use a calculator (not recommended)?
- What is the penalty for not being able to state a correct equation to back up your winning answer? Should the other player get the point? Should it be a do over? Should each player get one free missed answer per game before the penalty kicks in?
- What happens if two people call out the same answer at the same time? We recommend making this a do-over.

How to Play Math and Dice

With basic Math and Dice, two players compete against each other. (The game can also be played by three or more players, or by teams of players, with a slight adjustment to the scoring rules.) Players roll the dice as described below: winning a roll of the dice earns a player one point. Play continues until one player has won four points, or the best of seven points.



Playing a Point

http://www.batt.org/batt/custom/resources_fto/client_fto/k51/math/dice/index.htm

1. To start, one player rolls the four 6-sided dice w/ up 12 counts. Together, players combine the two numbers rolled to establish a Target Number. If you want to play the easier version of the game, add the four numbers together; if you want to play the more challenging version, multiply the four numbers together.
2. After the Target Number has been established, the second player rolls the three 6-sided Scoring dice. As soon as these dice have been rolled, they are in play for both players.
3. Using each of the numbers on the dice once and only once, and combining them using any combination of addition, subtraction, multiplication, division, and/or powers, the two players work to calculate a math expression that comes as close as possible to the target. When using powers, you must use one or more of the scoring numbers to get your exponent.
4. Once a player has calculated a number she's satisfied with, she calls it out. The other player then tries to find a different math expression, using the same Scoring Numbers that gets closer to the target than this. Players go back and forth until one player either hits the target exactly or the other player cannot find a closer number.
5. When players agree that no one can find a better answer, the player with the closest answer must then state the equation that he used to get his result. If the equation is correct, that player gets the point. If the equation is incorrect or the player can't remember the equation, the other player gets the point.
6. As stated above, players then repeat this process, rolling Target and Scoring Dice again. First player to reach 4 points wins the game. That's it!

Math and Dice recording table

12 Dice Roll Target Number	6 dice Player one expression	6 dice Player two expression

<https://www.calculator.net/dice-roller.html>

Calculator Board Game

Multiplication/Division

Directions:

- ❖ Players or teams take turns.
- ❖ On each turn, the player chooses two numbers from the Factor Pool and finds their product or quotient.
- ❖ A wild number can be used as a product or quotient; call out the number.
- ❖ A calculator may be used.
- ❖ The player then finds on the board number that is closest to the product or quotient, and places a marker on that number.
- ❖ The first player to have six markers in a row, horizontally, vertically, or diagonally, wins the game.

Factor Pool				
3	59	13	47	
23	16	17	31	18

50	610	1000	2770	230	400
140	1460	180	940	390	1830
370	850	1080	210	50	1060
290	560	50	800	1360	770
750	70	270	410	30	220
710	300	500	90	310	40



Sweet Sixteen

Can you arrange the numbers 2 to 9 in these boxes, so that each row and column of three connected squares adds up to 16?

Finish

If your total bill for a raincoat is \$103.68, including \$7.86 in tax, what was the actual purchase price of the coat?

My income is a combination of my \$32,000 yearly salary and \$6,500 profits from my investments.

If you pay \$20.00 for a \$17.58 purchase, how much change will you receive?

Oh No! Go back to Start**Move Ahead 2 Spaces**

Jose doubled his \$18,000 salary when he took a new job.

Skip One Turn

How many $\frac{1}{2}$ inch pieces can be cut from a board 1 yard long?

The stock was listed at 15 on Monday and then dropped $\frac{1}{3}$ on Tuesday.

How much more than \$3,500 is a \$4,275 down payment?

Marcie was happy about the 88¢ raise on her hourly wage of \$8.75.

About $\frac{1}{4}$ of the \$3,000 fans at a football game were cheering for the home team.

Oh No! Go Back

On average, 24 cars pass through the toll plaza a minute. How many pass through in an hour?

What will it cost for each bagel at \$3.85 per dozen?

Your yearly insurance premium of \$376 can be paid quarterly.

Move Back 3 Spaces

How far can I drive at 55 miles per hour in $6\frac{1}{2}$ hours?

Super Skip Move Ahead

What is the sum of 84 and the next odd number?

Move Ahead 3 Spaces

Jack and 4 friends agreed to split the \$2,000 prize if they won.

Each of 6 employees contribute \$5 for a gift certificate.

Because of the sale, I paid \$12 less than the original price of \$40.

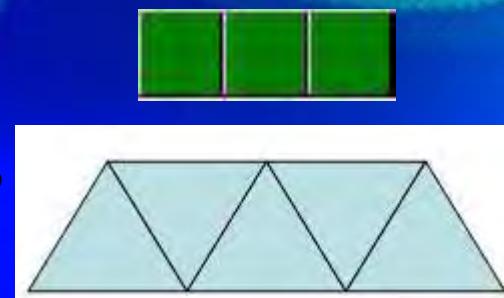
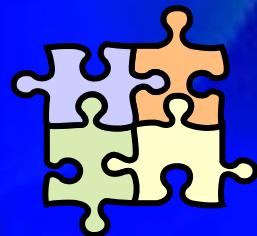
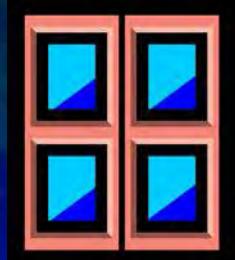
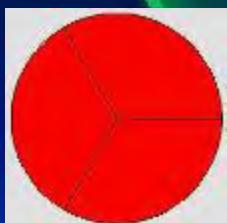
Situations to Operations**Start**

If your total bill for a raincoat is \$103.68, including \$7.86 in tax, what was the actual purchase price of the coat?



Sort the pictures below in to the correct columns. (drag & drop)

2/2	3/3	4/4	5/5





- What percent of your Smarties package is yellow?



- How do you express that in a ratio?



- What is the probability that you will pull a yellow Smartie out of your package without looking?

Nutritional Info Activity – Smarties



Before you open the pack:

- What percent of your Smarties package is yellow?
 - How do you express that in a ratio?
 - What is the probability that you will pull a yellow Smartie out of your package?
- Take 6 Smarties out in a row:
- What is the probability of drawing a white Smartie?

Nutrition Facts	
Serving Size 1 roll (7.0 g)	
<hr/>	
Amount Per Serving	
Calories 25	
<hr/>	
	% Daily Value*
Total Carbohydrates 6.3g	2%
Sugars 6.3g	
<hr/>	
* Based on a 2000 calorie diet	



Math Games and GameShow Website and App Ideas - Various



Coolmath Games

<https://www.coolmathgames.com/>

GO AD-FREE!

MATH GAMES FOR KIDS
CoolMath4Kids.com

STAY SAFE, STAY WELL • PLAY SAFE, PLAY WELL

NEW
GET YOUR USER PROFILE
FREE | Earn XP | Level Up.
or Log In

STRATEGY SKILL NUMBERS LOGIC TRIVIA MORE ▾ PLAYLISTS RANDOM! DAILY GAMES ALL GAMES A-Z

SEARCH

NEW GAMES See More ▾

Tiny Fishing
Looks like a nice day to go fishing! Cast your line and reel in a legendary fish. Earn cash to buy new hooks and skills.

Dumo
Red and Blue must work together to accomplish their goal! Switch between worlds to get keys, hit switches and get all the coins.

TRIVIA: Real or Cake?
Amazing. And delicious. Take the quiz!

Flowers and Rabbits
Can you water all the flowers without getting the rabbits wet? Use the right tools to make sure that everything stays dry.

COOLMATH GEAR

Google Search Web Gamequarium.com[Free Online Workshops for Teachers](#)**BEST ON THE
WEB FOR
Teachers!**

Interactive Math Games

SqoolTools

FREE Teaching Tools

[SqoolTools](#) | [SqoolTechs](#) | [Facts and Fun](#) | [Teacher Clicks](#) | [Preschool](#) | [Crafty Patch](#) | [Sites for Teachers](#) | [Sites for Parents](#)[Kids Online Math Games](#) A Math-Themed Virtual World for Ages 6-12. Play Free Now! www.MathBlaster.com[Math Practice - Ages 5-15](#) A math website kids LOVE — Win awards, certificates, have fun! www.IXL.com/Math[Comcast® - Online Offer](#) Digital Cable w/ On Demand, Faster Internet & Reliable Home Phone www.Comcast.com AdChoices ▾[Ads by Google](#)[Kids Math Games](#)[Math Worksheets](#)[Math Games](#)[Learning Math](#)

AdChoices ▾

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google.com/nexus

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3-10 yrs Trusted by 30 Million Parents. Free
www.Jumpstart.com

[Free Kids Games Online](#)

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[Math Videos](#)
[See All Videos](#)

<http://www.gamequarium.com/math.htm>

Interactive Math Games

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/dir/Gamequarium/Math/](http://www.gamequarium.org/dir/Gamequarium/Math/)

- [ADDITION](#)
- [ALGEBRA](#)
- [DATA INTERPRETATION](#)
- [DECIMALS](#)
- [DIVISION](#)

AdChoices ▾

[Free Shooting Game](#)

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www.Macospace.com

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Games You Didn't Know Existed to Fight Brain Decline and Aging.



jeopardylabs.com/



jeopardylabs.com/play/eto5

Pythagorean Theorem Jeopardy

<http://www.math-play.com/Pythagorean-Theorem-Jeopardy/Pythagorean-Theorem-Jeopardy.html>

In this Pythagorean Theorem Game, 8th grade students will practice calculating the hypotenuse and the unknown leg in a right triangle. The converse of the Pythagorean Theorem will also be utilized to verify if three numbers could be the sides of a right triangle.

The screenshot shows a game interface titled "Pythagorean Theorem Jeopardy". On the left, there is a sidebar with three player slots, each showing a silhouette icon and the number "0" below it. The main area is a purple-themed board with the text "Choose the number of teams:" and a large number "4" in the center. To the right of the number are two large, light-colored arrow buttons pointing up and down. At the bottom, there is a black navigation bar with a yellow circular arrow icon on the left and the word "NEXT" in white capital letters on the right. In the bottom right corner of the main area, the number "26" is visible.



Practice your math skills with these fun and challenging games. There are action games, puzzles, and other learning activities. Concepts include basic math operations, algebra, percent, geometry, and money.

<http://www.mathplayground.com/games.html>

Math Games

Word Problems

The Happy Hamburger

Let the waiter know your order by bringing a maximum of 5 food items to the counter. When you're ready to continue, press the Check button for the first question.

Happy Burger	\$2.75	French Fries	\$1.50
Flamin' Frank	\$4.00	Giant Cookie	\$5.25
Pizza	\$1.75	Can of Soda	\$2.50



Pumpkin Multiples

Math at the Mall - Grades 4 and 5

Word Problems with Katie and Arlo

Word Problem 6

Jason has 97 cents in his pocket. He wants to buy 3 super balls at the toy store. Each super ball costs 13 cents.

How much money will Jason have left?

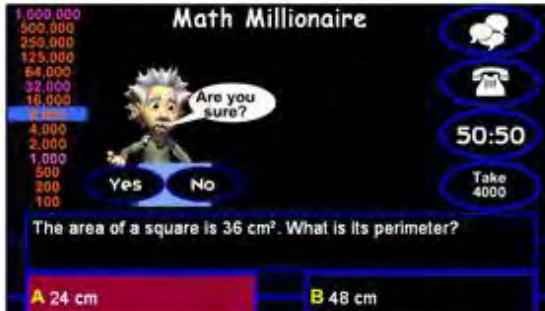
cents

ENTER



Troy's Toys

Big sale today!
Save 30% on all toys.



Math Millionaire

Logic Puzzles



Challenge Cube



Sliders

THINKING BLOCKS

Model Your
Math Problems



Add/Sub/Mult/Div/Ratios

Math Videos

Gap: 2 meters

Task: Fill the gap with **8** fractions of **equal value**.

Sound

Clear Board

Check Gap

MathPlayground.com

remove fractions here

<http://www.mathplayground.com/games.html>

DRAG PANEL

1/2		1/6	
1/3		1/8	
1/4		1/10	
1/5		1/12	





<https://mrnussbaum.com/>

Most Popular on MrNussbaum.com

Games	Interactive Maps/Apps	Activities
1. Genius Boxing	1. 13 Colonies	1. Draggable Math
2. Place Value Pirates	2. Interactive World Map	2. Reading Comprehension
3. Stock the Shelves	3. Interactive World Landforms	3. Cloze Reading
4. Tony Fraction	4. Explorers	4. Math Drill Library
5. Math Fries	5. Lewis and Clark	5. Cool Graphing
6. Death to Decimals	6. Civil War	6. Insect Generator
7. Clara Fraction	7. American Revolution	7. Word Search Generator
8. Computation Castle	8. Emigrant Trails	8. U.S. History Timeline
9. Decimals of the Caribbean	9. Pirates	9. American Birds
10. Tackle Math Ball	10. United States	10. Sentence Surgeons
11. Half-Court Rounding	11. Canada	11. Totem Pole Maker
12. Trimathlon	12. U.S. Cities	12. Digraph Crosswords
13. Cash Out	13. China	13. Dollar Bill Generator
14. Totem Pole Maker	14. Native Americans	14. Dissect-a-Dollar
15. Bowling Pin Math	15. Mexico	15. Northern Lights Mak

Genius Boxing

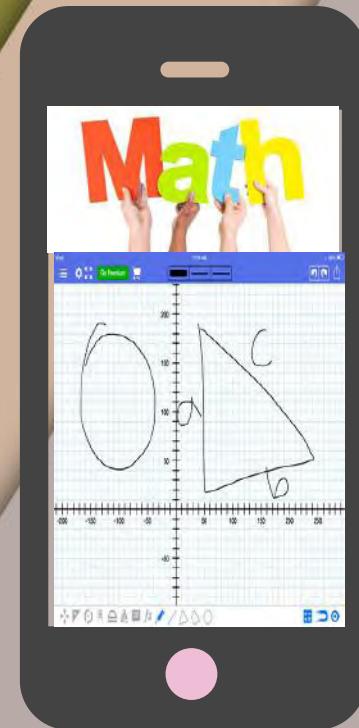
This game requires the LATEST version of Flash to be installed on your computer

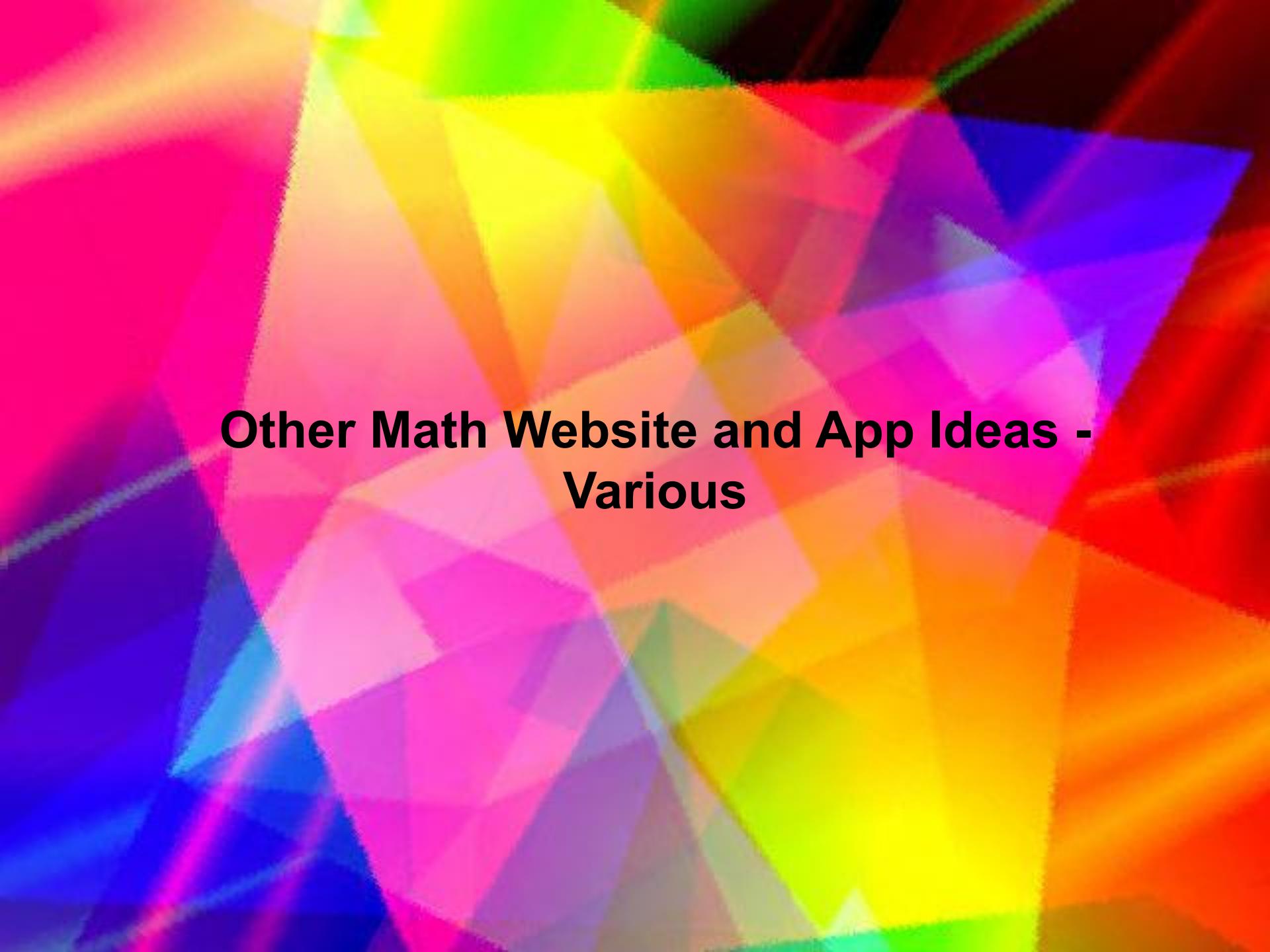
[Play Now!](#)



5 Best Apps to Improve Math Skills for Adults Through Gameshows

- Kahoot!
- eQuizShow
- Quizalize
- QUIZLET
- Quizzes



The background of the slide features a vibrant, abstract geometric pattern composed of numerous overlapping triangles. These triangles are filled with a variety of colors, including shades of red, orange, yellow, green, blue, and purple, creating a dynamic and colorful visual effect.

Other Math Website and App Ideas - Various

A Plus Math

<http://www.aplusmath.com/>

AplusMath [www.aplusmath.com](#)

Worksheets Games Flashcards Subjects ▾

Welcome to aplusmath.com!

Interactive math resources for teachers, parents, and students featuring free math worksheets, math games, math flashcards, and more.

Math Activities

 [Worksheets](#)
Create worksheets for printing, solving online, or download PDF.

 [Flashcards](#)
Test your math skills with our Flashcards!

 [Games](#)
Play exciting games like MATHO and Hidden Picture.

 [Homework Helper](#)
Check your homework solutions.

Printable Math Worksheets

www.homeworksimplified.com

Get Help On Algebra, Calculus, Geometry & More. Install Toolbar!

»

Math Subjects

Addition Subtraction Multiplication Division

Fractions Geometry Algebra

Math.Com

<http://www.math.com/school/subject1/practice/S1U1L3/S1U1L3Pract.html>

Homework Help

Practice

Tutoring

Calculators & Tools

AdChoices ▾

► Math School

► Rounding

► Math Help

gebra | Numbers



First Glance



In Depth



Examples



Workout

Hint

New Problem

Round this
number ...

... to this many
places.

In order to become skilled in mathematics you need to practice!

Try a workout of 10 problems. If you get at least 8 correct on your first attempt, then you're ready to move on. If not, review "In Depth" and try again.

Type your answer below:

Check your Answer

Your score

Correct -

Incorrect -

Math Study Stacks Flashcards

<http://www.studystack.com/category-8>

The screenshot shows the homepage of the Math StudyStack website. On the left, there's a graphic of a stack of colorful books labeled "Geography", "History", "Math", "Languages", "Science", and "Medicine". Above the books is a green diamond shape containing the text "The Study Stack". To the right of the books, the text "Flashcards have Evolved" is displayed. Below this, there are navigation links: Home, Logon, About, Wiki, and FAQ. The main title "Math StudyStacks" is centered above a list of flashcard categories. The categories listed are: 0-7 Multiplication Facts (162 cards), 0012problems (6 cards), 1+1= (22 cards), 13 Most common fractions and decimal equivalents MATH (13 cards), 2 (15 cards), 2 & 3 times tables (22 cards), 3 (15 cards), 3's (7 cards), 3rd grade Homeschooling Multiplication Memorization 10X's (11 cards), 3rd grade Homeschooling Multiplication Memorization 11X's (11 cards), 3rd grade Homeschooling Multiplication Memorization 12X's (11 cards), and 3rd grade Homeschooling Multiplication Memorization 4X's (11 cards). At the bottom left, there's a search bar with "Web" and "studystack.com" selected, and a "Google Search" button. A "Recommended Links" section is also visible at the bottom left. An "Ads by Google" banner is located on the right side of the page.

Flashcards have Evolved

Home Logon About Wiki FAQ

Math StudyStacks

Math Problems Solved
All Your Questions Answered By Math Tutors Try For Free Now
www.TutorVista.com/Maths

Best Math Worksheets Free
Curriculum-based Online Programs Math, Reading, and Science for Kids
www.beestar.org

Ads by Google

- 0-7 Multiplication Facts (162 cards)
- 0012problems (6 cards)
- 1+1= (22 cards)
- 13 Most common fractions and decimal equivalents MATH (13 cards)
- 2 (15 cards)
- 2 & 3 times tables (22 cards)
- 3 (15 cards)
- 3's (7 cards)
- 3rd grade Homeschooling Multiplication Memorization 10X's (11 cards)
- 3rd grade Homeschooling Multiplication Memorization 11X's (11 cards)
- 3rd grade Homeschooling Multiplication Memorization 12X's (11 cards)
- 3rd grade Homeschooling Multiplication Memorization 4X's (11 cards)

Web studystack.com

Google Search

Recommended Links

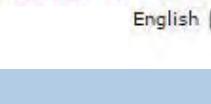
National Library of Virtual Manipulatives

<http://nlvm.usu.edu/en/nav/vlibrary.html>

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Virtual Library About eNLVM Buy Now!

Download NLVM App, Additional Features, No problems with Java

Index	Pre-K – 2	3 – 5	6 – 8	9 – 12
Number & Operations				
Algebra				
Geometry				
Measurement				
Data Analysis & Probability				

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Math Trivia & Math Fun

Here is a collection of math trivia and math fun stuff from various sources to chase the math blues away!

[Math Puzzles](#)

Huge selection of Math Puzzles Items:
[Yahoo.com](http://www.yahoo.com)

[Interactive math problems](#)

Live Math Tutoring & Homework Help. Get Help 24x7 with Problems & Tests

Ads by Google

<http://www.onlinemathlearning.com/math-trivia.html>

Geometry Math Games

Our directory of Free Geometry Math Games available on the Internet - games that teach, build or strengthen your geometry math skills and concepts while having fun. We categorise and review the games listed here to help you find the math games you are looking for.

[Math Games](#)

Play Your Favorite Games. Free! Puzzle, Card, Action Games & More!

[Math games](#)

Browse a huge selection now. Find exactly what you want today.

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Geometry Math Games

[Angle Shooters](#)

Shoot flying saucers to learn about acute, obtuse and right angles

[Measuring Angles](#)

Measure angles using a protractor.

<http://www.onlinemathlearning.com/math-trivia.html>

Free Online Math Games

Our directory of Free Online Math Games available on the Internet - games that teach, build or strengthen some math skills and concepts while having fun. We categorise and review the games listed here to help you find the cool and fun math games you are looking for.

[Runaway Math Puzzles](#)

More Fun Than Sudoku Puzzles. Try Runaway Math Puzzles Now!

[Math games](#)

Browse a huge selection now. Find exactly what you want today.

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[GMAT Preparation](#)

[Math Worksheets](#)

[Math Trivia](#)

- [Algebra](#)
- [Arithmetic](#) (Addition, Subtraction, Division, Multiplication)
- [Comparing Numbers](#)
- [Decimals](#)
- [Factors](#)
- [Fractions](#)
- [Geometry](#)
- [Integers](#)

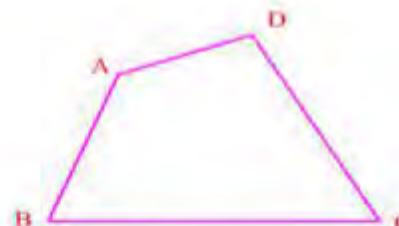
Measuring Angles

Using a protractor to measure angles.

Mouse click on the protractor to drag it around the screen for making measurements. Measure the angle given in the question, then click on the correct answer below the question. Use the arrow to go to the next question.

What is the measurement of angle ABC?

- > 50 degrees
- > 80 degrees
- > 70 degrees



←
Previous Question

→
Next Question

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(100% Free)

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Tested by Daniel E. Saab

<http://www.saab.org/mathdrills/md.cgi>

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Mathematics Tests and Drills

[Factoring Polynomials](#)

[Problems on distance, speed and time](#)

[Percentage Word Problems](#)

[Prime Factorization Problems](#)

[LCM and GCD Problems](#)

[Work Completion Problems](#)

[Roots of Polynomials Problems](#)

[Linear Equations](#)

[MATHCOUNTS Drills](#)

S.O.S. Mathematics

Free resource for math review material from Algebra to Differential Equations!

<http://www.sosmath.com/>

The screenshot shows the homepage of SOS Mathematics. At the top, there is a large red banner with the text "S.O.S. Mathematics" in white and "Algebra" in a smaller font below it. To the left of the banner is a small image of a lighthouse. Below the banner, there is a navigation menu with links to Home, Algebra, Trigonometry, Calculus, Differential Equations, Complex Variables, Matrix Algebra, Tables, CyberExam, and CyberBoard (Help Forum). On the left side, there is a green button for IXL with the text "Try 20 FREE practice problems!". Below the IXL button is a search bar with the word "Search" and a close button. To the right of the search bar is a section titled "Fractions" with a blue circular icon. Under "Fractions", there is a list of topics: Before You Start, Reminder, Simple Fractions, Complex Fractions, Compound Fractions, Converting Decimals to Fractions, Converting Percentages to Fractions or Decimals, and Summary of Rules. On the right side, there is a sidebar with a "AdChoices" link and a list of categories: SOS Math Algebra, Algebra, and Math Application.

inux.

Worksheets Direct

<http://worksheetsdirect.com/members/>

The screenshot shows the homepage of WorksheetsDirect.com. At the top, there's a blue header bar with the website's name. Below it is a white navigation bar with links like HOME, ABOUT, TERMS OF USE, FACEBOOK MEMBERS, WORKSHEETS|QUIZZES, FLASHCARDS, GRAPHIC ORGANIZERS, MISC., INTERACTIVE LEARNING SITES, MATH VOCABULARY, GED HELP, CONTACT US, MATH VIDEOS, PCAST PDF VIDEOS, GED COURSE | FRACTIONS, ALGEBRA 1A, and WHOLE NUMBERS. The main content area features a large image of raspberries. Below the image is a secondary navigation bar with links such as HOME, ALGEBRA, BASIC MATH VIDEOS, DRIVER'S EDUCATION, FLASHCARDS, FRACTIONS, GRAPH PAPER & GRIDS, GRAPHIC ORGANIZERS, MATH, and MATH FACT FAMILIES. There are also links for MULTISHEET PACKET, ON-LINE LEARNING GAMES, TELLING TIME, and FIGURES. On the left side, there's a member login form with fields for Username and Password, and checkboxes for Remember Me and Login. On the right side, there's a search bar labeled "SEARCH WORKSHEETSDIRECT.COM" and a section titled "SPONSORED LINKS".

GED Math Vocabulary Worksheets- Whole Numbers

BY INSTRUCTOR, ON SEPTEMBER 3RD, 2012

[Print Documents Online](#)
theupstore.com/PrintOnline
Upload, Preview & Print Online. Fast, easy pickup. The UPS Store®.

SPONSORED LINKS

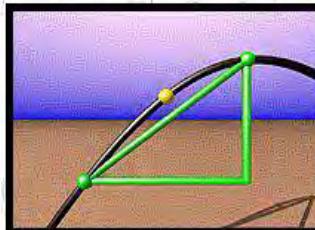
Zonaland Education Math and Science

<http://zonalandeducation.com/mmts/mmts.html>

$\frac{d + bx}{a} \stackrel{n-1}{=} \frac{(2n-2)!}{(2n-2)2^n}$ or $\sqrt[n]{d+bx} \stackrel{n-1}{=} \frac{(2n-2)!}{(2n-2)2^n}$ or $\sqrt[n]{d+bx} \stackrel{n-1}{=} \frac{(2n-2)!}{(2n-2)2^n}$ or $\sqrt[n]{d+bx} \stackrel{n-1}{=} \frac{(2n-2)!}{(2n-2)2^n}$

[Back](#) [Science](#) [Contents](#) [Index](#) [Home](#)

$\frac{(2n-1)!}{(2n-2)2^n}$ or $\sqrt[n]{d+bx} \stackrel{n-1}{=} \frac{(2n-1)!}{(2n-2)2^n}$ or $\sqrt[n]{d+bx} \stackrel{n-1}{=} \frac{(2n-1)!}{(2n-2)2^n}$ or $\sqrt[n]{d+bx} \stackrel{n-1}{=} \frac{(2n-1)!}{(2n-2)2^n}$

 or 

$\frac{d + bx}{a} \stackrel{n-1}{=} \frac{(2n-2)!}{(2n-2)2^n}$ or $\sqrt[n]{d+bx} \stackrel{n-1}{=} \frac{(2n-2)!}{(2n-2)2^n}$ or $\sqrt[n]{d+bx} \stackrel{n-1}{=} \frac{(2n-2)!}{(2n-2)2^n}$ or $\sqrt[n]{d+bx} \stackrel{n-1}{=} \frac{(2n-2)!}{(2n-2)2^n}$

[Expression Evaluation](#) [The Function Institute](#) [The Geometry Section](#)

$\frac{(2n-1)!}{(2n-2)2^n}$ or $\sqrt[n]{d+bx} \stackrel{n-1}{=} \frac{(2n-1)!}{(2n-2)2^n}$ or $\sqrt[n]{d+bx} \stackrel{n-1}{=} \frac{(2n-1)!}{(2n-2)2^n}$ or $\sqrt[n]{d+bx} \stackrel{n-1}{=} \frac{(2n-1)!}{(2n-2)2^n}$

[Graph Paper](#) [Miscellaneous Mathematics](#) [The Trigonometry Realms](#)

$\frac{d + bx}{a} \stackrel{n-1}{=} \frac{(2n-2)!}{(2n-2)2^n}$ or $\sqrt[n]{d+bx} \stackrel{n-1}{=} \frac{(2n-2)!}{(2n-2)2^n}$ or $\sqrt[n]{d+bx} \stackrel{n-1}{=} \frac{(2n-2)!}{(2n-2)2^n}$ or $\sqrt[n]{d+bx} \stackrel{n-1}{=} \frac{(2n-2)!}{(2n-2)2^n}$

[Curve Fitting](#) [EZ Graph](#) [Simple Data Grapher](#)

[Curve Editing](#) [EZ Graph](#) [Simple Data Grapher](#)

[EZ Graph](#) [Simple Data Grapher](#) [The Trigonometry Realms](#)

Identify Fractions

<http://www.visualfractions.com/identify.htm>

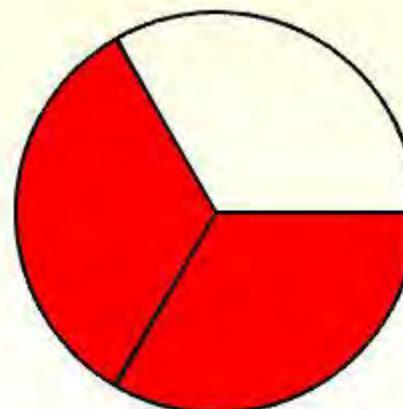
IDENTIFY FRACTIONS

Select Language ▾

- [Identify Fractions with Number Line Models](#) or [Identify Fractions with Circle Models](#) will give instruction and practice in identifying the numerator and denominator.
- [Identify Groups](#) will give instruction and practice in finding fractional parts of a group of objects.
- [Identify Mixed Numbers with Number Line Models](#) or [Identify Mixed Numbers with Circle Models](#) will give instruction and practice in identifying the whole number, numerator and denominator.



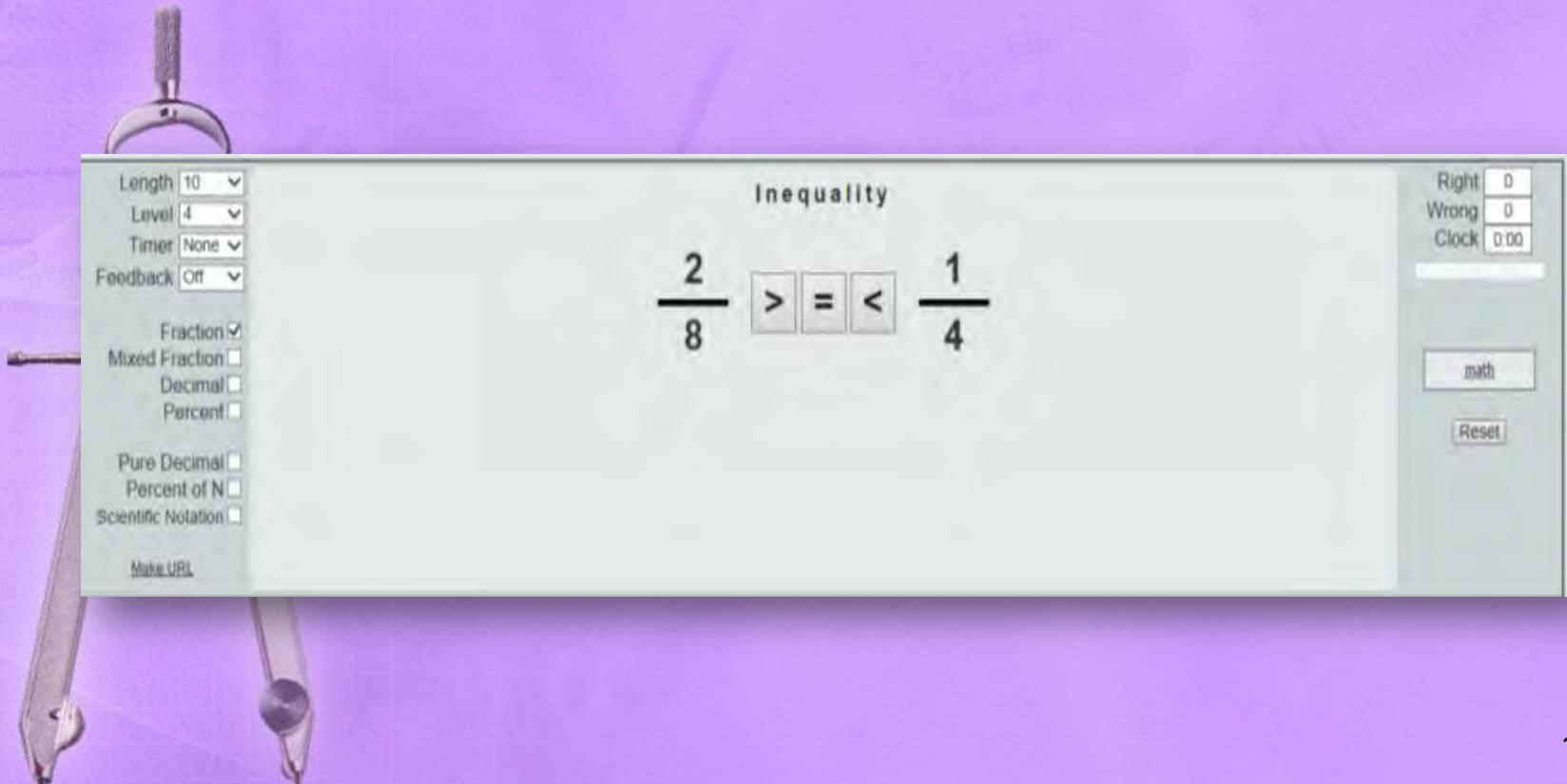
[Find Grampy](#) Grampy is hiding and Grammy uses a number line to help you find him.



$\frac{2}{3}$ of the circle is shaded.

Practice identifying fractions, percents, and decimals as less than, equal to, or greater than.

<http://www.thatquiz.org/tq/practice.html?fracineq>



A screenshot of a math practice website titled "Inequality". The interface includes a sidebar with settings for Length (10), Level (4), Timer (None), Feedback (Off), and various input types like Fraction (checked), Mixed Fraction, Decimal, Percent, Pure Decimal, Percent of N, and Scientific Notation. On the right, a score panel shows Right: 0, Wrong: 0, and Clock: 0:00. Below these are buttons for "math" and "Reset". The main area displays the inequality $\frac{2}{8} \boxed{>} = \boxed{<} \frac{1}{4}$, where the student needs to choose the correct comparison operator ($>$, $=$, or $<$) to make the statement true.

Mathematical Interactivities - Puzzles, Games and other Online Educational Resources

BRAIN TRAINING GAMES

Memory
Attention

Stress
Language

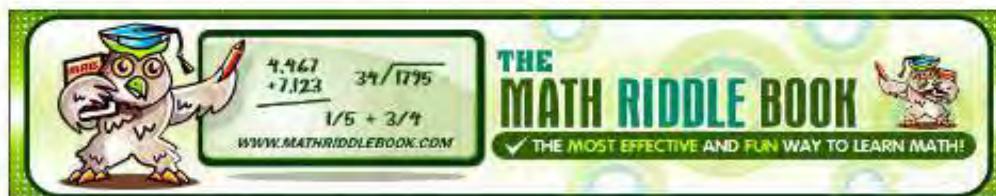
Focus
Intelligence



Play Games

Introduction

This is a *short* list of some of the interactivities I have made available to play online from my websites. I'm usually writing new games and puzzles every week. However, I don't always have the time to add updates to this index. To find out what I'm working on, read my [Math Games weblog](#).



Popular Math Games Online

1. [The Frog Puzzle Online](#) - Click on the lily pads to make the frogs move across the pond by hopping or sliding. Can you work out how many moves you would need to shift any number of frogs?

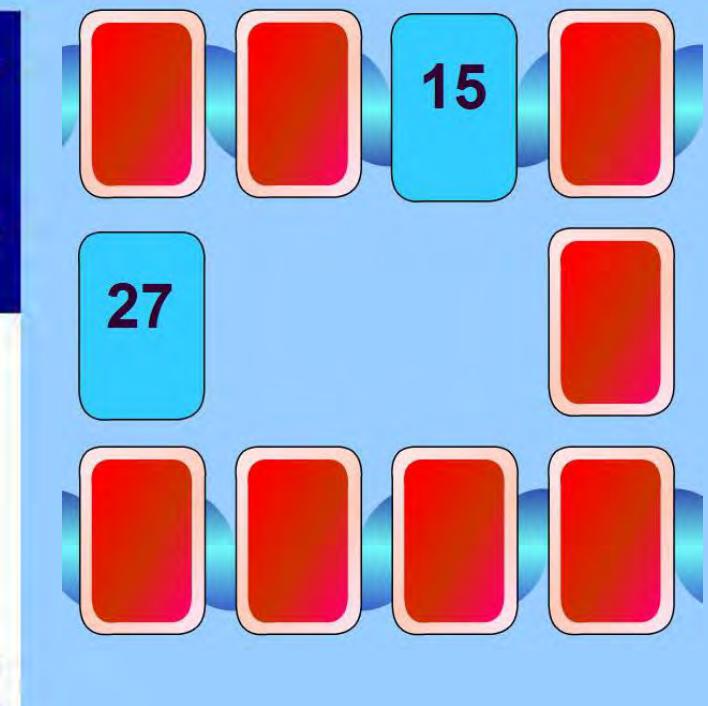


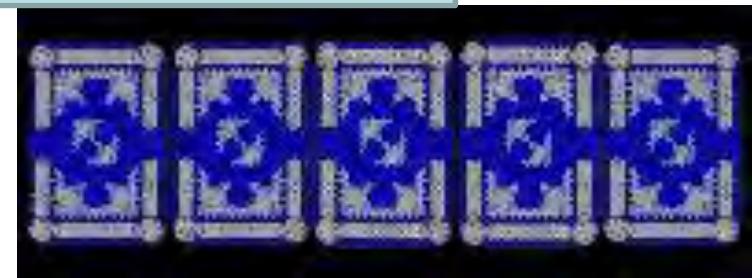
Table Times

$1 \times 9 =$

Click here
to answer

0 Score

Time 6.5



Mathematical Interactivities - Puzzles, Games and other Online Educational Resources

The Quest for the Prize

A new mystery novel that's a puzzle and a challenge. Can you solve it?

Play Puzzle Games

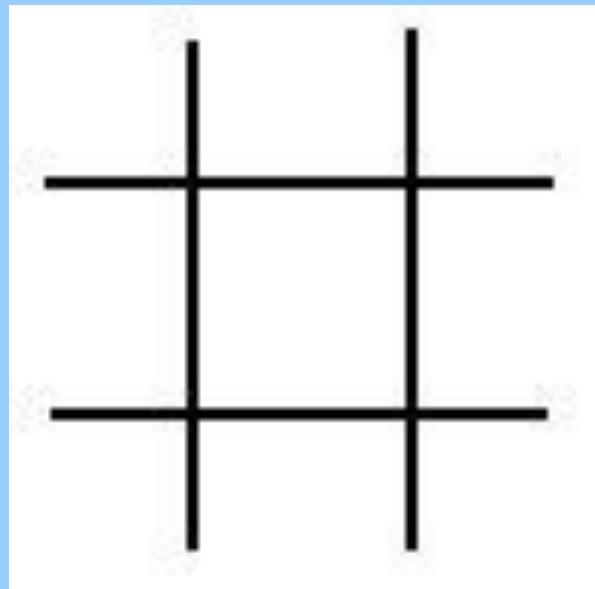
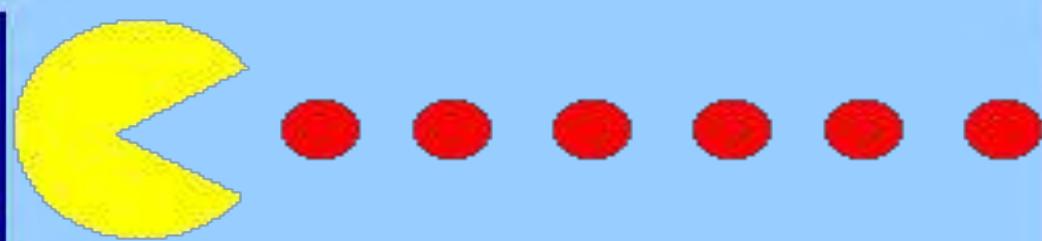
Choose from dozens of puzzle games to play from GameHouse today.



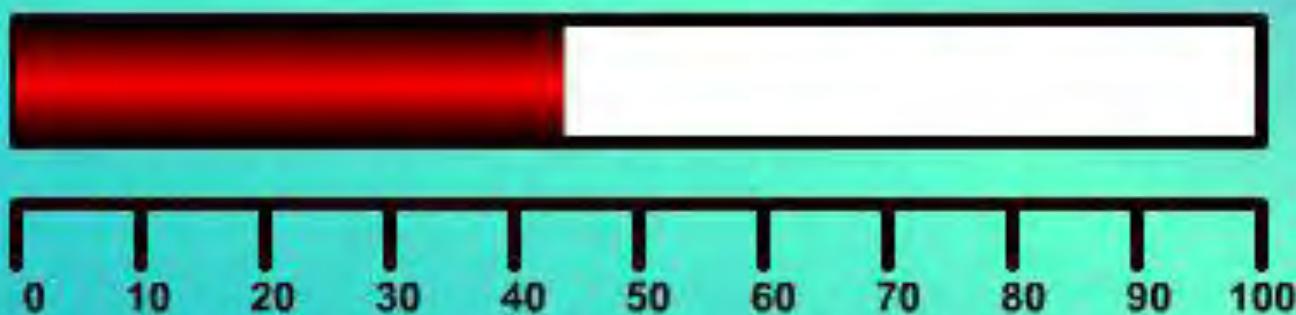
Ads by Google

Introduction

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Estimating Percentages



What percentage of the bar is shaded like this?



Answer: %

Check it!

Score:

Another?

Hellam Multiplication Tables

<http://mathematics.hellam.net/math2000/tables1.html>

Multiplication Tables

Enter the number of
the table you would
like to create here:

15

Press this button to
create your table:



$15 \times 0 = 0$
 $15 \times 1 = 15$
 $15 \times 2 = 30$
 $15 \times 3 = 45$
 $15 \times 4 = 60$
 $15 \times 5 = 75$
 $15 \times 6 = 90$
 $15 \times 7 = 105$
 $15 \times 8 = 120$
 $15 \times 9 = 135$
 $15 \times 10 = 150$
 $15 \times 11 = 165$
 $15 \times 12 = 180$

Multiplication Tables

Enter the number of
the table you would
like to create here:

15

Press this button to
create your table:



Improve math vocabulary and practice basic math through geometry with "The Language of Math", a site created by ESL teacher Charles LaRue.

<http://www.mcedservices.com/math/mathindex.htm>



**Multi-Cultural
Educational Services**

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The Language of Mathematics

Topics	Glossaries	Practice	Quizzes	Practice	Quizzes	Practice
Basic Math Addition, Subtraction, Multiplication, Division	English Spanish Somali Hmong Arabic Russian Vietnamese	Quiz 1	Quiz 2	Quiz 3	Quiz 4	Quiz 5
Fractions Decimals, Percent, Proportion, Ratios, Measurements and Conversions, Charts and Graphs	English Spanish Somali Hmong Arabic Russian Vietnamese	Quiz 6	Quiz 7	Quiz 8	Quiz 9	Quiz 10

Mathopolis

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1st Grade

3rd Grade

5th Grade

7th Grade

2nd Grade

4th Grade

6th Grade

8th Grade

<http://www.mathopolis.com/index.php>

[Games](#)

Games designed to improve your mental power

[Questions](#)

The [Mathematics Question Database](#)

Featured Games:



$3 + 2 =$

148

Estimation

Reaction Math

FIND GRAMPY-STRICK

Found Grampy: 0

Attempts: 1

Score: 0 Percent

Start

Report

Numerator

2
8

Denominator

OK

New Example

Invalid amount entered

<http://www.visualfractions.com/FindGrampstrict.html>



<http://www.visualfractions.com/FindGrampstrict.html>

Fraction Games



[Find Grampy](#) Grampy is hiding and Grammy uses a number line to help you find him.



[Find Grampy-Strict](#) This game with Grammy and Grampy requires fractions in lowest terms.



[Cookies for Grampy](#) See how fast you can put cookies together.



[Find Grammy](#) Help Grampy find Grammy. Grammy hides herself better than Grampy and Grampy uses only two words to help you find her.



[Platform Scales](#) This is the first of a series of games that are under development that use scales to study units, tenths, and hundredths.



[Platform Scales Addition](#) Weigh several items and find the sum in hundredths of a gram.



[Platform Scales Subtraction](#) Weigh several items and find the difference in hundredths of a gram.



The hedge has 8 parts. Grampy is at one of the parts. Can you find him?

[Games Page](#)

[Home Page](#)

INSTRUCTIONS



CREATE A GRAPH

Help



Graphs and charts are great because they communicate information visually. For this reason, graphs are often used in newspapers, magazines and businesses around the world.

Examples

NCES constantly uses graphs and charts in our publications and on the web. Sometimes, complicated information is difficult to understand and needs an illustration. Graphs or charts can help impress people by getting your point across quickly and visually.

Here you will find five different graphs and charts for you to consider. Not sure about which graph to use? Confused between bar graphs and pie charts? Read our:

[Create A Graph Tutorial](#)



Bar



Line



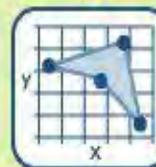
Area



Pie



XY



Please select a graph type to begin

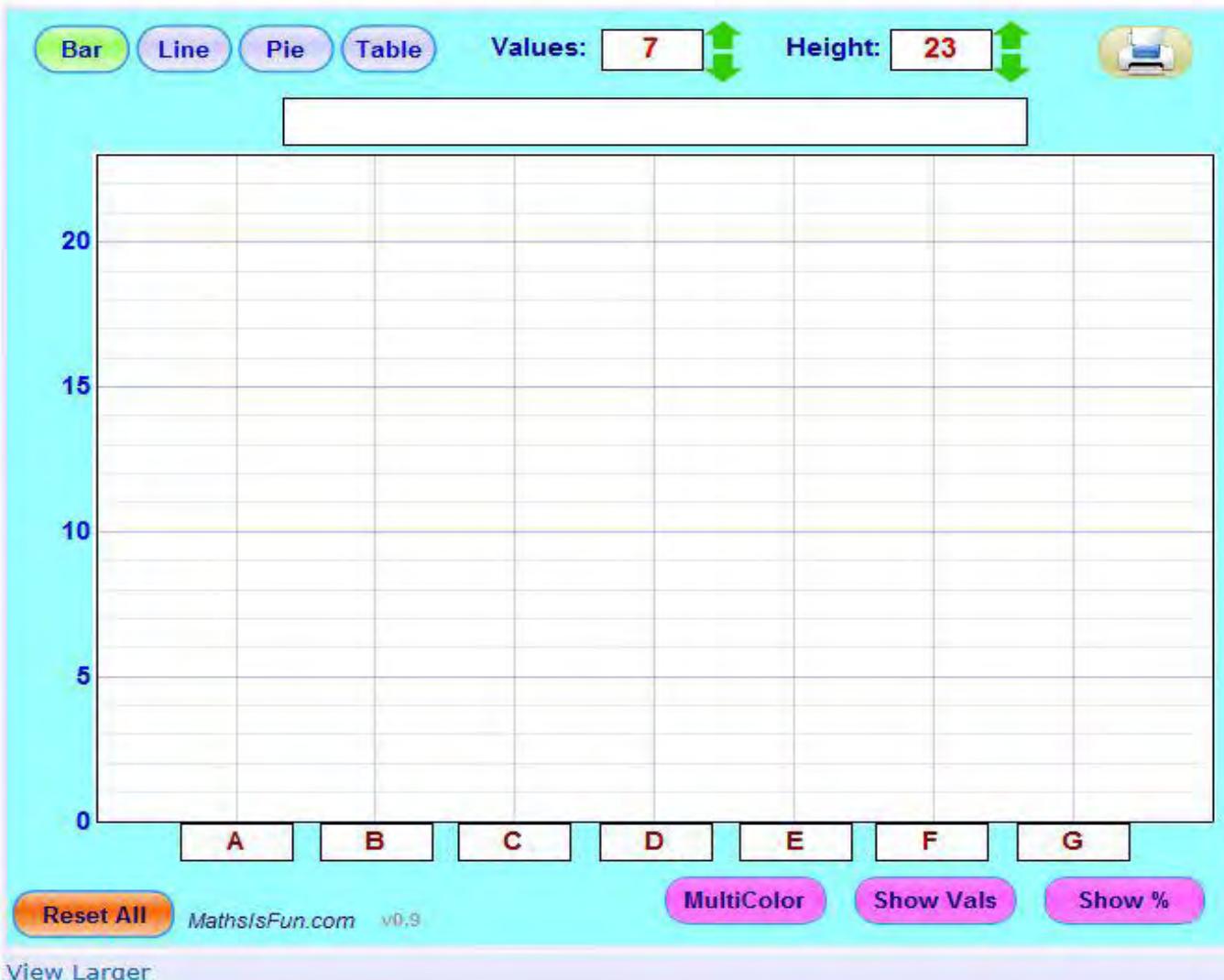
New to creating graphs? Then try...



Data Graphs

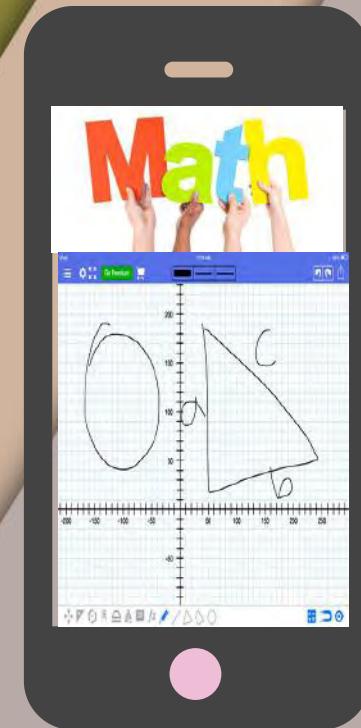
Display your data as a Bar Graph, Line Graph or Pie Chart, then Print it.

Just Click on the Graph to set Values ... ([more instructions](#))



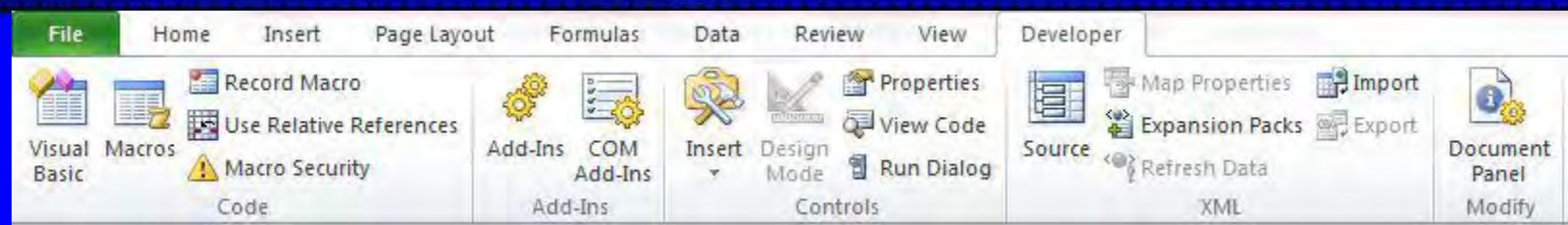
6 Best Websites and Apps to Improve Math Skills for Adults Through Communication and Interactive Communities

- Flipgrid
- Google Classroom
- Google Suites Docs, Forms, Slides
- Microsoft Office 365
- Moodle
- Wakelet



Creating educational Activities with Excel, PowerPoint, and Word

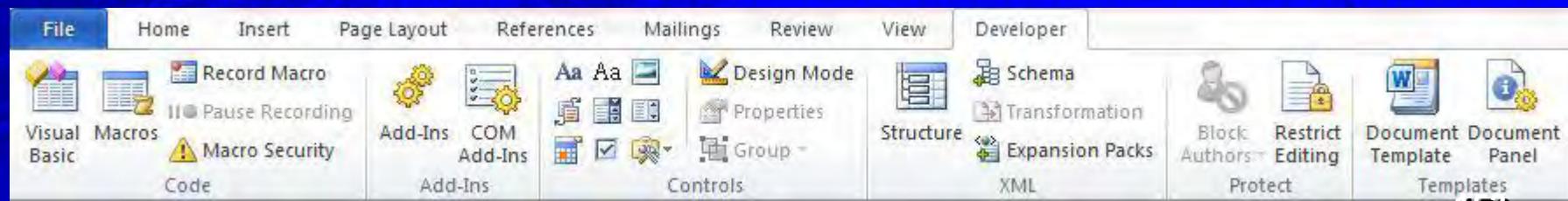
Excel – self checking Excel Spreadsheets completed with IF Functions, Conditional Formatting, screen shots, and Developer Tab options

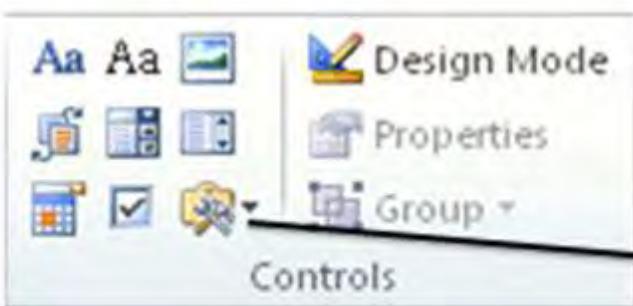


PowerPoint - screen shots, Developer Tab options, animations



Word - screen shots, Developer Tab options





A	Aa	Aa	Label Controls, Rich Text, Plain Text	Check Box	Date Control
Text Box				Option Button	
Spin Box				Combo Box	
Text Box				List Box	Building Block Gallery
Image or Picture				Toggle Button	
Scroll Bar				More Controls	
More Controls					

Questions????

Thank you!