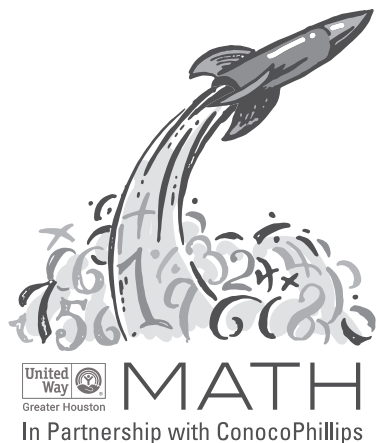# ELEMENTARY
MATH-in-a-Flash

United Way
Greater Houston

MATH

In Partnership with ConocoPhillips

A workbook full of amazing math problems and brain teasers that you can do in a flash.

MATH

In Partnership with ConocoPhillips

Welcome students!

This book is designed for you to try your hand at some cool math problems and brain teasers that you can do in a flash! Each day of the week you will solve a fun problem.

How it works:

- There is one problem per page with space for you to show your work.
- Take your time and read all problems carefully.
- If you are stuck, look in the back for the Resource Page.
- Remember, if you are in doubt, draw it!

We hope you enjoy *Math-in-a-Flash*. If you have any questions please ask an adult. We can't wait to see how fast your confidence builds each day as you work through the *math...in a flash*!

Week One

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MATH-in-a-Flash

An octopus has eight legs. There are five octopus in the tank. How many legs do you see?

MATH-in-a-Flash

Write the place value of the underlined digit in each number.

3<u>4</u>2 = _____

MATH-in-a-Flash

Use >, <, or = to compare the numbers

700 + 50 + 6 _____ 700 + 60 + 5

MATH-in-a-Flash

Find the perimeter:

9 cm

3 cm

Week Two
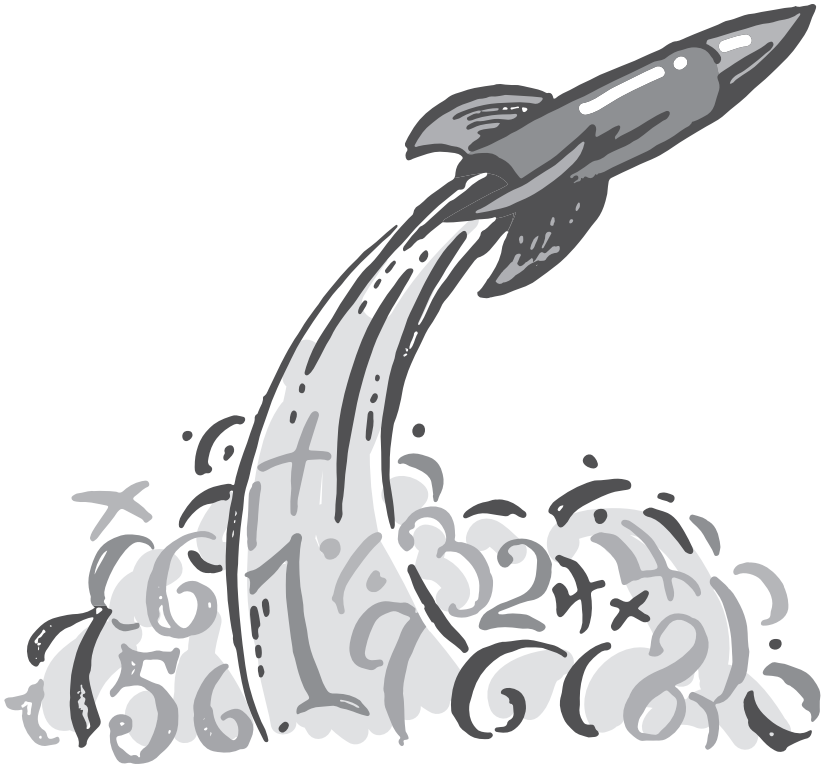
MATH-in-a-Flash

Find the missing number.
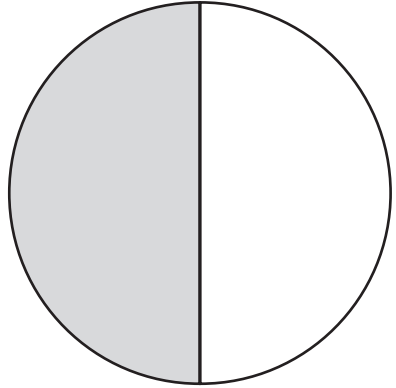
2 + 30 + 100 + _____ = 2132

MATH-in-a-Flash

Fill in the equivalent fraction:

$$\frac{4}{8}$$
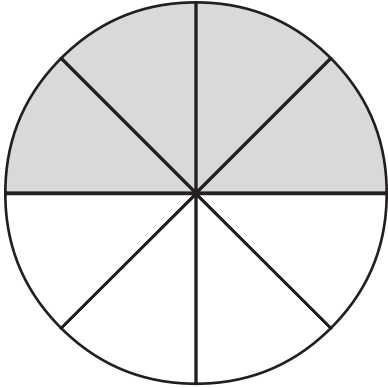
$$\frac{}{2}$$

MATH-in-a-Flash

A week has seven days. A weekend has two days. Shade
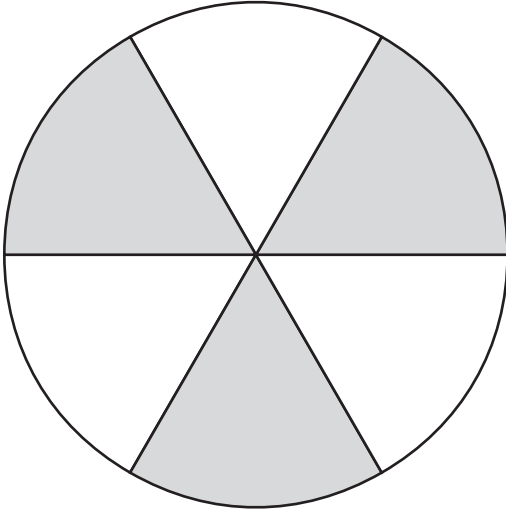this fraction strip to represent a weekend as a part of a
week. What is the fraction?

MATH-in-a-Flash

Determine the fraction:

$$\frac{}{6}$$

Week Three

MATH-in-a-Flash

Five friends went to see a movie. It cost $2.50 for each person to get into the movie. How much did it cost for everyone to get into the movie?

MATH-in-a-Flash

Abby gets paid $5 dollars each day that she babysits. She works four days a week. How much does she make in a month? *(assume there are 4 weeks in a month)* *Remember to show your work.*
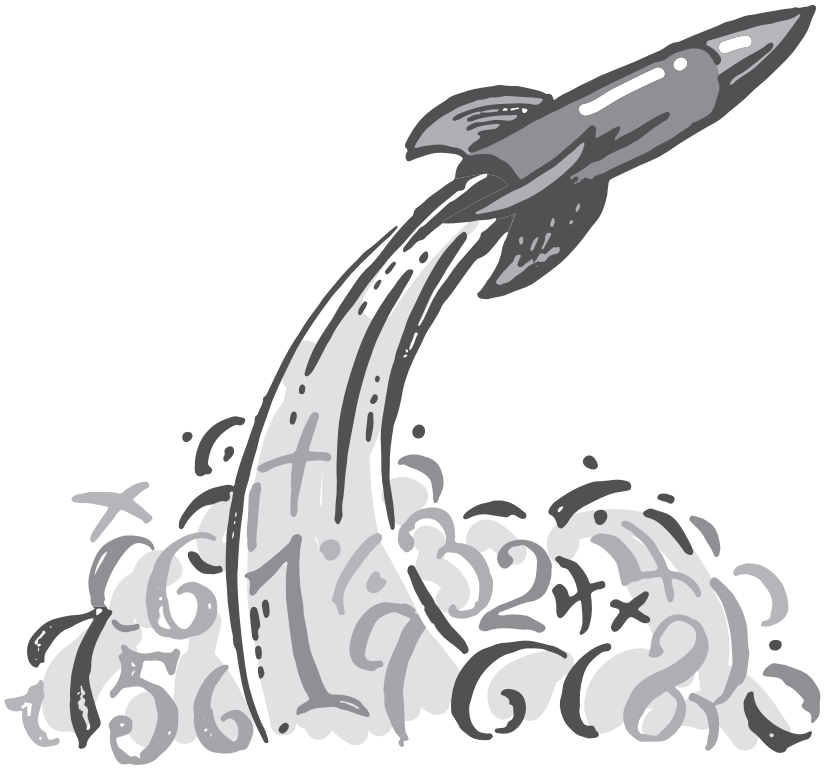
MATH-in-a-Flash

Find the missing number.

800 + 50 + _____ + 1 = 7851

MATH-in-a-Flash

Chris has two five dollar bills. Can he buy two slices of pizza if they cost three dollars each.
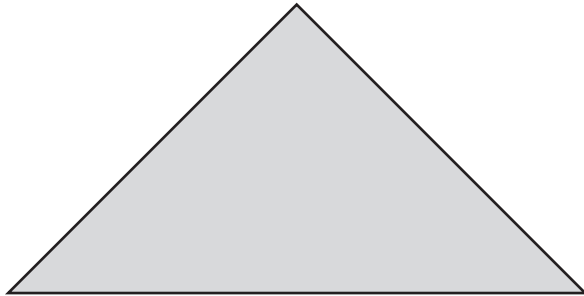
Week Four

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MATH-in-a-Flash

Sides:

Lines of symmetry:
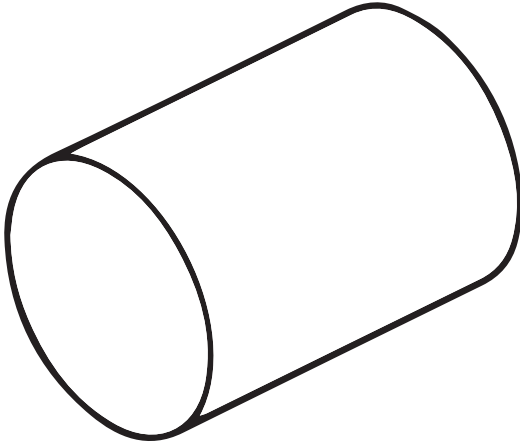
Name the shape:

MATH-in-a-Flash

Classify the 3D shape:

Faces: _____   Shape: _____

MATH-in-a-Flash

If the perimeter is 26 ft. what is the length of the missing side?

5ft

?
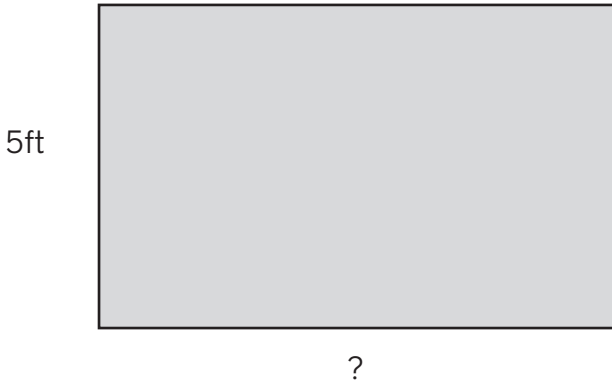
MATH-in-a-Flash

Find the perimeter of the square:

7ft

7ft
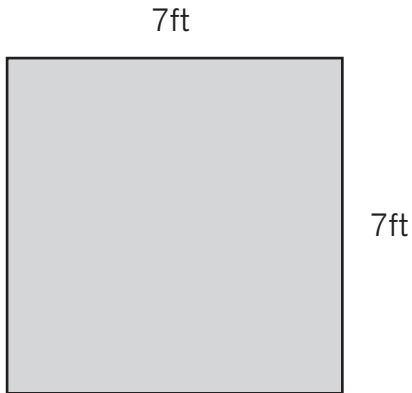
So you think you can math?

More Challenge Questions

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MATH-in-a-Flash

How many did not choose rock as their favorite type of music?

Favorite Types of Music

Bar graph titled "Favorite Types of Music" with "Number of Students" on the vertical axis (0 to 14) and "Types of Music" on the horizontal axis. Hip-hop: 12, Classical: 8, Rock: 7, Jazz: 14.
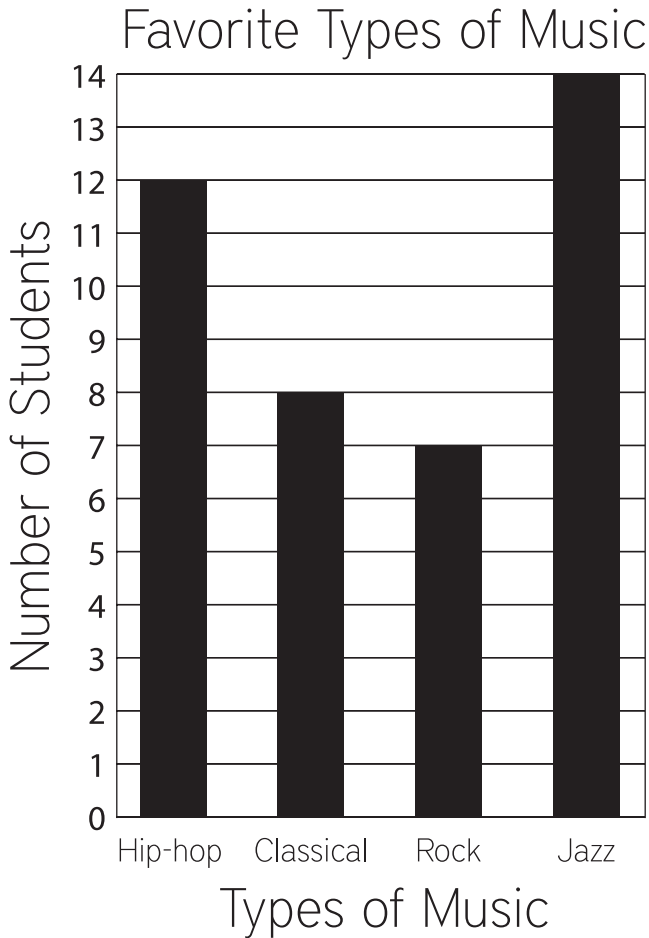
MATH-in-a-Flash

Based on the Stem and Leaf plot below, what number does Stem 2 and Leaf 6 represent?

Stem	Leaf
1	2 3 3 5 7 8
2	2 6 6
3	5
4	0

MATH-in-a-Flash

How many 4th graders chose basketball or soccer as their favorite sports?

Favorite sports of Third and Fourth Graders

Bar chart titled "Favorite sports of Third and Fourth Graders" with legend: Grade 3 (black), Grade 4 (gray). Y-axis: Number of Students (0 to 30). X-axis: Sports.
- Soccer: Grade 3 = 20, Grade 4 = 25
- Baseball: Grade 3 = 20, Grade 4 = 15
- Swimming: Grade 3 = 15, Grade 4 = 10
- Basketball: Grade 3 = 5, Grade 4 = 30
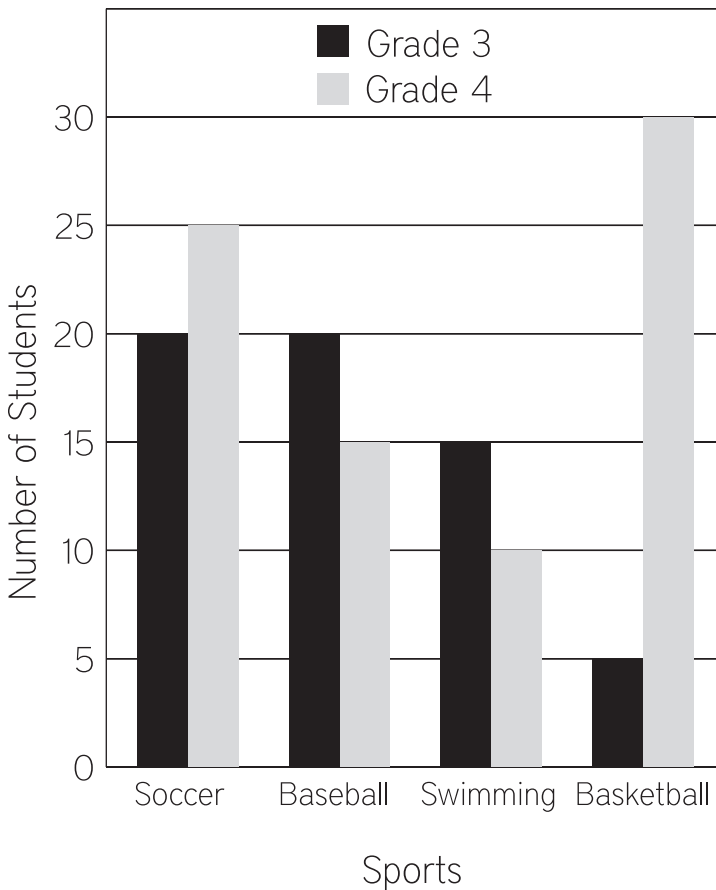
MATH-in-a-Flash

Nicole walked to the store. It takes her 45 minutes to walk to the store and back home. If Nicole leaves at 2:30 pm, what time will she make it back home?

MATH-in-a-Flash

The seven sets of numbers below all have a certain logic that is the same in all seven numbers. See if you can determine the relationship and come up with the final digit of the last number.

a. 1 3 8 2 1

b. 5 1 3 4 2

c. 6 0 0 2 7

d. 9 2 0 4 0

e. 2 5 1 1 6

f. 4 4 4 0 3

g. 7 0 3 1 **?**

MATH-in-a-Flash

Janet is purchasing drinks for a party. She bought 4 packs of Dr. Pepper that came with a dozen cans. She purchased 2 packs of Sprite that came in packs of 8 cans, and she purchased 3 packs of Pepsi that came in packages of 6 cans. What is the total number of cans of soda that Janet purchased for the party? *Remember to show your work.*
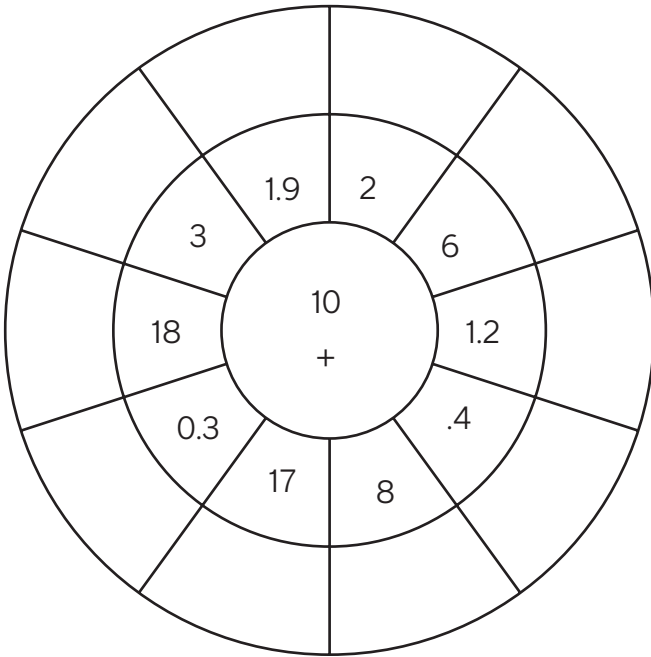
MATH-in-a-Flash

The floor plan below shows how The Venue sets up their main conference room. The circular tables seat 12 guests and the rectangular tables seat 8 people. If after receiving the floor plan, Mary asks them to add on 1 more circular table, how many people can be seated at the circular table? What's the total amount of people in the Venue if all seats are filled? *Remember to show your work.*
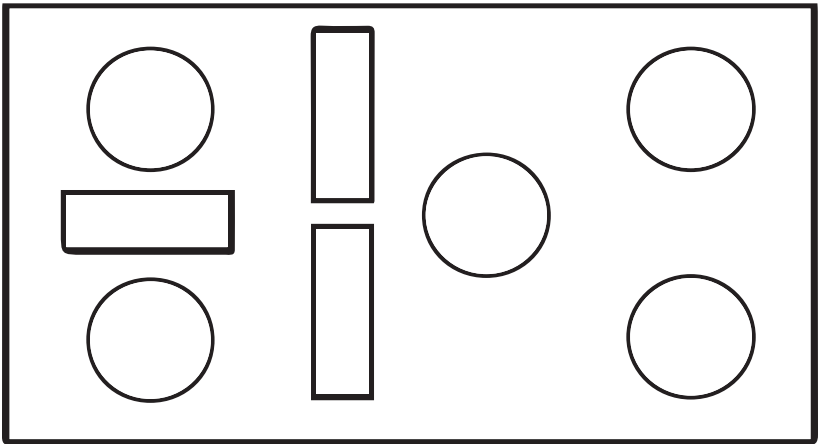
MATH-in-a-Flash

Add the following:

10
+

1.9
2
3
6
18
1.2
0.3
.4
17
8

MATH-in-a-Flash

A broken scale is used to measure the height of the plant. The length of the broken scale is 12 cm. The height of the plant is 4.15 times greater than the broken scale. What is the height of the plant? *Remember to show your work.*

MATH-in-a-Flash

Mark uses the computer for 12 hours. If the average power consumption of a computer per hour is 299 watt, how much power does Mark use? *Remember to show your work.*

MATH-in-a-Flash

What number does Stem 2 and Leaf 6 represent on the Stem and Leaf plot?

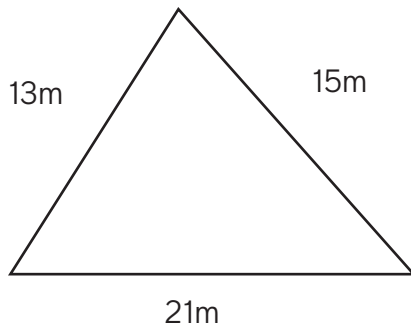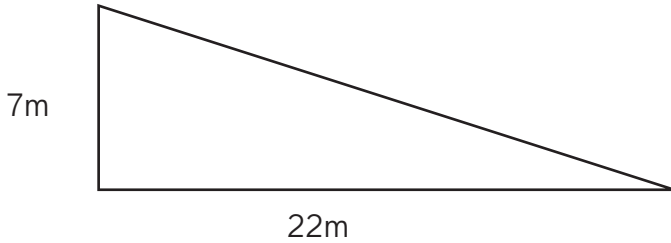| Stem	Leaf
1	2 3 3 5 7 8
2	2 6 6
3	5
4	0

MATH-in-a-Flash

What is the perimeter of the triangle? *Remember to show your work.*

13m

15m

21m

MATH-in-a-Flash

Find the area of the triangle: *Remember to show your work.*

7m

22m

MATH-in-a-Flash

Determine the equivalent fraction: *Remember to show your work.*

$$\frac{1}{2} =$$

   a. $\dfrac{3}{6}$

   b. $\dfrac{3}{4}$

   c. $\dfrac{2}{6}$

Comparing fractions: *Remember to show your work.*

Is $\dfrac{3}{8}$ < or > $\dfrac{5}{12}$

MATH-in-a-Flash

Subtract the fraction and simplify if needed: *Remember to show your work.*

$$\frac{7}{6} - \frac{5}{6} =$$

Add the fraction: *Remember to show your work.*

$$\frac{3}{10} + \frac{4}{10} =$$

Add the fraction: *Remember to show your work.*

$$\frac{1}{3} + \frac{3}{8} =$$

MATH-in-a-Flash

Write the following decimal as a fraction.

0.27 =

MATH-in-a-Flash

Write the following decimal as a fraction.

0.5 =

MATH-in-a-Flash

There are 14,240 books in a library. They are arranged on shelves that hold 8 books each. How many shelves are in the library? *Remember to show your work.*

MATH-in-a-Flash

Jim rides the bus to and from school each day. A one-way trip is 8.12 kilometers. How many kilometers does he travel in 3 days? *Remember to show your work.*
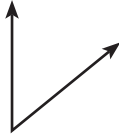
MATH-in-a-Flash

Classify the angle

    a. Acute

    b. Obtuse

    c. Right

MATH-in-a-Flash

Below is a partial magic square using the numbers 1-16. The rows, columns, and diagonals must each total the same sum. Place the final four numbers in the appropriate squares

16	9	2	7
6	?	?	13
11	?	?	4
1	8	15	10

MATH-in-a-Flash

Convert.

23 ft 7 in = _____ in

MATH-in-a-Flash

Angel read 2 books each week for 8 weeks over the summer. Lindsey read 3 books per week for 8 weeks over the summer. Emily read 4 books each week for 8 weeks over the summer. What is the total number of books that Angel and Lindsey read together? *Remember to show your work.*

MATH-in-a-Flash

A rectangular field measures 10 ft. by 3 ft. What is the area of this field?

MATH-in-a-Flash

Find the secret trail. Start from the circled number in the box. Using the operation provided at the bottom of the box, add the numbers to create a trail to the end of the circled number.

10	7	4	8
1	1	10	10
(10)	3	10	5
3	7	3	10
		+	(57)

START

END

MATH-in-a-Flash

What's the missing number?

5   25   125   _____   3,125   15,625

MATH-in-a-Flash

Find the secret trail. Start from the circled number in the box. Using the operation provided at the bottom of the box, add or subtract the numbers to create a trail to the end of the circled number.

9	2	4	2
(4)	5	5	5
5	6	6	5
4	10	8	7

START →

+ (49)

END ↑

5	7	8	1
9	1	10	3
5	1	6	9
(30)	10	5	2

START →

- (1)

END ↑

MATH-in-a-Flash

Find the secret trail.

(50)	9	2	4
7	4	2	5
10	9	1	6
3	3	10	7
		-	(10)

Solve:

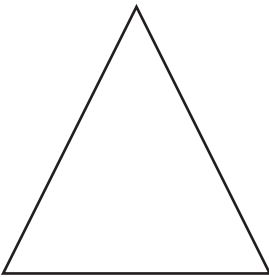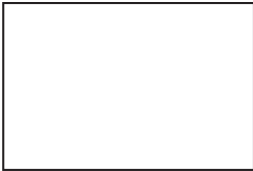|						
5	-	2	+	10	=	
-		+		-		+
2	+	6	-	3	=	
+		-		+		+
5	-	2	+	8	=	
=		=		=		=
	+		+		=	
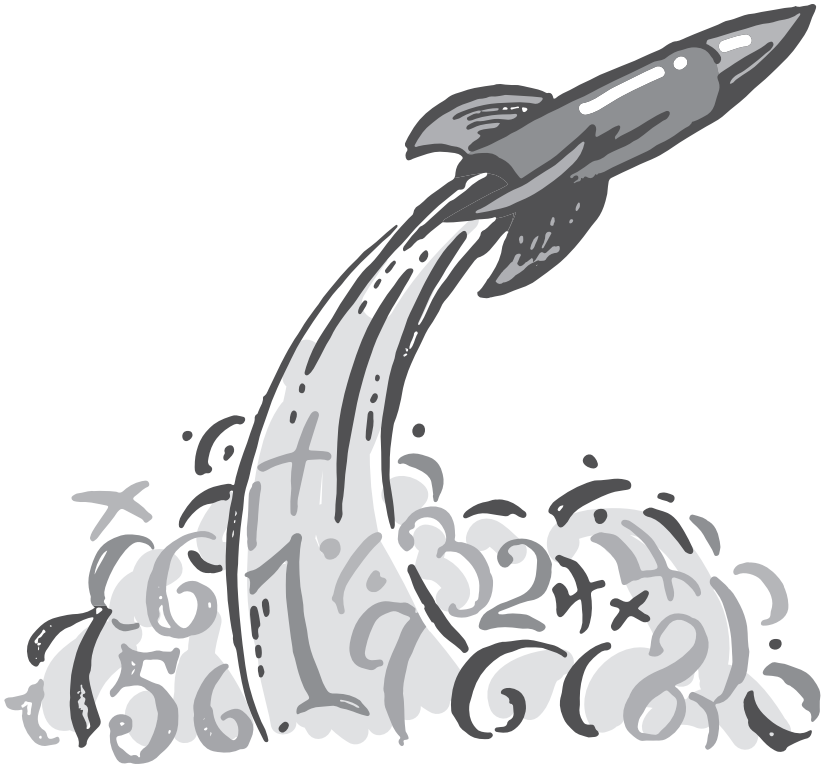
Resources

MATH-in-a-Flash
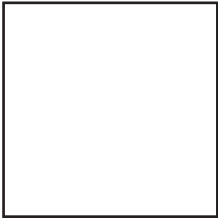
Perimeter of a square: 4a

Area of a square: $A = a^2$

Perimeter of a triangle: a + b + c

Area of a Triangle: $A = \frac{1}{2}\, bh$

Perimeter of a rectangle: 2l + 2w

Area of a rectangle: l • W

Obtuse Angle= Greater than 90 degrees

Acute Angle= Less than 90 degrees

Right Angle= 90 degrees

MATH-in-a-Flash

Problem Solving Strategies

1. Read the Problem.
2. Circle the numbers.
3. Underline the facts (key words) you need to solve the problem.
4. Draw a picture if needed to help you solve the problem.
5. Solve the problem and show your work.

Distance Conversion

12 inches = 1 foot

Order of Operations:

Parenthesis ( )

Exponent ^{Exponent}

Multiply (x)

Divide (÷)

Add (+)

Subtract (-)

Less Than <

Greater Than >