

Name: _____

Only use a pencil to write the numbers on the blank lines. You do not need any scrap paper! Solve it in your head. If you forget a number, then start over. Cool, huh?

Mental Math



= Do it
in your
head!

imagine 9 in your head

multiply 7

subtract 7

Add the tens digit to the ones digit.
Write the sum.

A B

imagine 3 in your head

add 9

double it

subtract 7

subtract 9

Write the number.

C

imagine 8 in your head

add 3

multiply 7

double it

Write the hundreds digit.

D

imagine 7 in your head

double it

add 4

subtract 8

subtract 6

add 1

Write the number.

E

What is the sum?

A + B + C + D + E

Wow! Great job! That's the answer, but do you know how to SPELL the number?

_____ e _ n _____

7 before 17 _____

8 after 11 _____

6 before 19 _____

8 before 12 _____

5 after 16 _____

5 before 11 _____

1 before 15 _____

4 after 15 _____

9 before 13 _____

Name: _____

Cross off the number that does NOT belong.

2, 6, 7, 15, 28, 50, 93, 171, 314, 578, 946, 1063, 1955, 3596, 6614

Why does _____ not belong in the pattern?

Cross off the number that does NOT belong.

7, 28, 33, 132, 137, 548, 553, 2212, 2217, 5653, 8868, 8873, 35492

Why does _____ not belong in the pattern?

Name: _____

The Nile River was 11 feet above flood stage yesterday. Today the water rose to 21 feet above flood stage. How far did the river rise today? Write an equation for this problem. Explain what the variable represents.

If the ratio of difficult physics problems to easy physics problems in a book is 2 to 5, how many easy problems are there if there are 320 problems in the book? Round your answer to the nearest whole number if necessary.

What is 7% of 64?

Sara can't wait for her friend to visit.

"As soon as you leave the airport, drive 44 miles to exit 5," says Sara.

"I don't think you mean miles. They use kilometers here," says Rosa.

Help Sara tell Rosa how many kilometers to drive. Use 1 mile = 1.6 kilometers.

Name: _____

Change $\frac{3}{12}$ to a decimal.

Change 0.21 to a percent.

Find 4% of 110.

Find 55% of 165.

Change $\frac{4}{10}$ to a percent.

Find 50% of 236.

Change to percents.

.81 = .64 =

.53 = .47 =

.4 = .06 =

.72 = .9 =

.26 =

42 is what percent of 175?

Change $\frac{5}{20}$ to a decimal.

Change 3% to a decimal.

Change $\frac{2}{4}$ to a decimal.

Change $\frac{21}{30}$ to a decimal.

Name: _____

<p>Rose has 129 pennies in a jar on her desk. Each penny weighs about 2.6 grams. What is the approximate weight of the 129 pennies?</p>	<p>Wendy walked to the store in 15.7 minutes. She bought Band-Aids for \$0.55, gauze for \$1.29, and suntan lotion for \$2.89. She gave the clerk a \$10 bill. She left the store at 3:45 a.m. It took her 20.2 minutes to walk home. How much longer did it take her to walk home than it took to walk to the store?</p>	<p>Anne wanted to clean out her fish tank. Her fish tank was 2 feet long, 1.7 feet deep and 1.5 feet wide. Eighty-five percent of the volume of the tank was filled with water. What was the volume of the part of the tank that was not filled with water? Round your answer to the nearest hundredth.</p>
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<p>Rewrite these in increasing order of length: 200 mm, 271 m, 20 km, 605 cm</p>	<p>Can 910 be evenly divided by 6? Circle: 910 is evenly divisible by 6 910 is NOT evenly divisible by 6</p>
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$\begin{array}{r} 239 \\ + 334 \\ \hline \end{array}$	<p>Anna is going to roll two dice. What is the chance that her total will be either 9 or higher on her first roll?</p>	<p>Anne rolls two dice. What is the chance of her rolling a 2 on one die and a 1 on the other die?</p> <p>_____</p>
		<p>$16 \div 4 =$ _____</p>

Name: _____

$\begin{array}{r} 364 \\ - 101 \\ \hline \end{array}$	$53,935 - 34,456 = \underline{\hspace{2cm}}$	$5 \times 2 = \underline{\hspace{2cm}}$
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Circle the addition property for $22 + 65 = 65 + 22$. associative property commutative property	$1 \text{ kg} = 1,000 \text{ g}$ $21 \text{ kg} = \underline{\hspace{2cm}} \text{ g}$	$5 \times 6 = \underline{\hspace{2cm}}$

$72 \div 8 =$	Anne and her little sister, April, both have birthdays on the same day. Anne is sixteen years old. April is eleven years old. Did you know that Anne was once double the age of April? How many years ago was that?	$\begin{array}{r} 46 \\ - 31 \\ \hline \end{array}$
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$6 \text{ lb} = \underline{\hspace{2cm}} \text{ oz}$	$168 + 416 = \underline{\hspace{2cm}}$	$12 \times 8 =$
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Rose rolls a die. What is the chance of her rolling a 3? _____	Seven-eighths of the children in Hernandez's class want to go outside. If Hernandez agrees with the majority, will the class stay inside or go outside?	$\begin{array}{r} 32 \\ + 45 \\ \hline \end{array}$
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$45,123 + 45,749 = \underline{\hspace{2cm}}$	$110 \div 10 = \underline{\hspace{2cm}}$	$90 \div 9 = \underline{\hspace{2cm}}$
How many millimeters are in 4 centimeters? _____ millimeters	$12,953 + 78,514 = \underline{\hspace{2cm}}$	

Name: _____

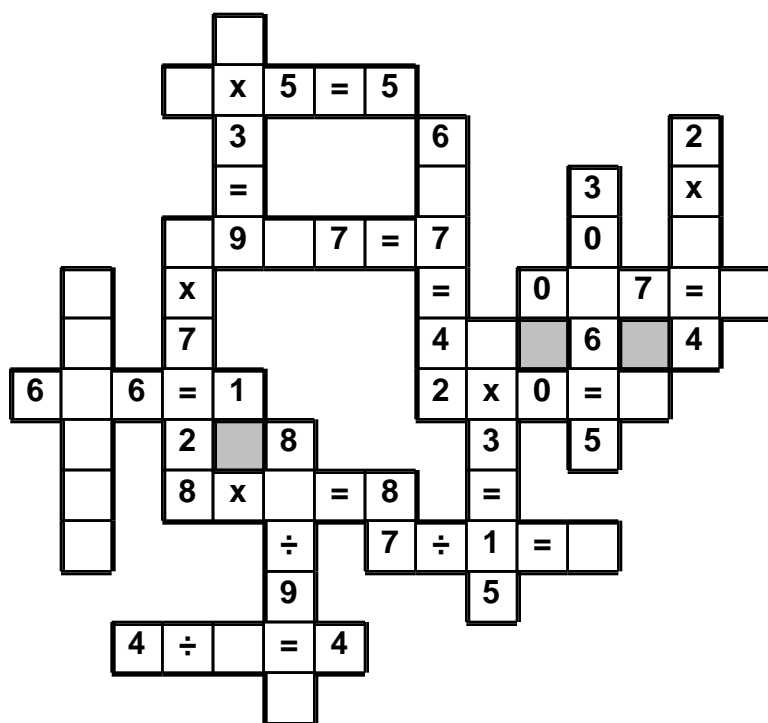
<p>In the number 3,692,909,501, the digit 6 is in what place?</p> <p>_____</p>	<p>Here is a pattern of letters:</p> <p style="text-align: center;">J J Z J J Z J ...</p> <p>What letter will be the 36th term in the pattern?</p>
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<p>$88 \div 11 =$ _____</p>	<p>$7 \times 8 =$ _____</p>	<p>The number 4774 is a palindrome. Any number which reads the same in both directions is a palindrome number.</p> <p>Emily is thinking of a palindrome number. The number is less than 1,000. The number has 3 digits. The sum of the first three digits in the number is 19. The digit, 1, is in the number. The number is greater than 900. What is her number?</p>
<p>$4 \times 5 =$</p>		

<p>$(8 + 4) + 9 =$</p>	<p>Write the missing family fact.</p> <p>$3 \times 15 = 45$ $15 \times 3 = 45$ $45 \div 3 = 15$</p> <p>_____</p>
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<p>$962 + 859 =$ _____</p>	<p>$9,662 + 2,998 =$ _____</p>
<p>$737 - 471 =$ _____</p>	<p>$24 \div 12 =$ _____</p>

Use the pieces above to help you fill in the runaway math puzzle.



$5 \times 11 = \underline{\hspace{2cm}}$

$11 \times 11 = \underline{\hspace{2cm}}$

word root **quin** can mean **five**

quintuplets, quintet

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head!

imagine 3 in your head

add 8

double it

Add the tens digit to the ones digit.
Write the sum.

A

imagine 9 in your head

subtract 6

add 8

double it

add 7

Write the tens digit.

B

imagine 6 in your head

subtract 2

add 8

multiply 3

subtract 8

double it

Write the tens digit.

C

imagine 5 in your head

add 3

double it

add 2

add 5

add 9

Write the ones digit.

D

What is the sum?

A + B + C + D

Wow! Great job! That's the answer, but do you know how to SPELL the number?

_____e_____

6 after 19 _____

5 before 12 _____

6 before 11 _____

8 after 17 _____

7 before 17 _____

9 before 16 _____

5 after 11 _____

4 before 14 _____

2 before 19 _____

Name: _____

Make change. You can use \$20, \$10, \$5, \$1, 25¢, 10¢, 5¢, or 1¢.

Make \$17.57 any way you want!

Make \$21.35 any way you want!

Make \$17.55 any way you want!

Make \$12.17 any way you want!

$$24 \div 6 =$$

$$94,835 - 76,525 = \underline{\hspace{2cm}}$$

Name: _____

		+		+		=	
	A		A		C		28
x							
	C		?		B		22
+							
	B		B		B		15
=							
		71		126		35	

Equations and Hints:

Each letter is a whole number.

Fill in the equations using the chart:

$$A \times C + B = 71 \quad \underline{\quad} \times B + B = 35 \quad \underline{\quad} + \underline{\quad} + \underline{\quad} = 28$$

$$\underline{\quad} + \underline{\quad} + \underline{\quad} = 15$$

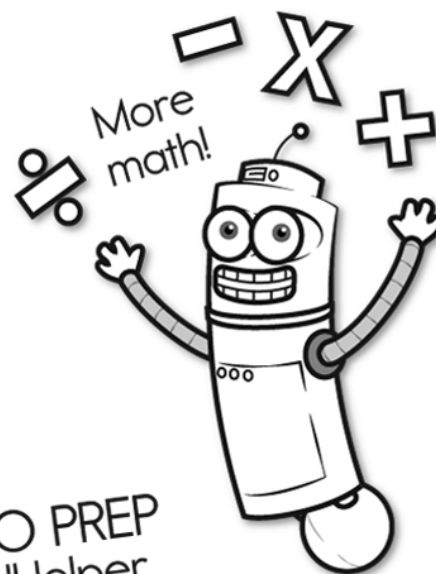
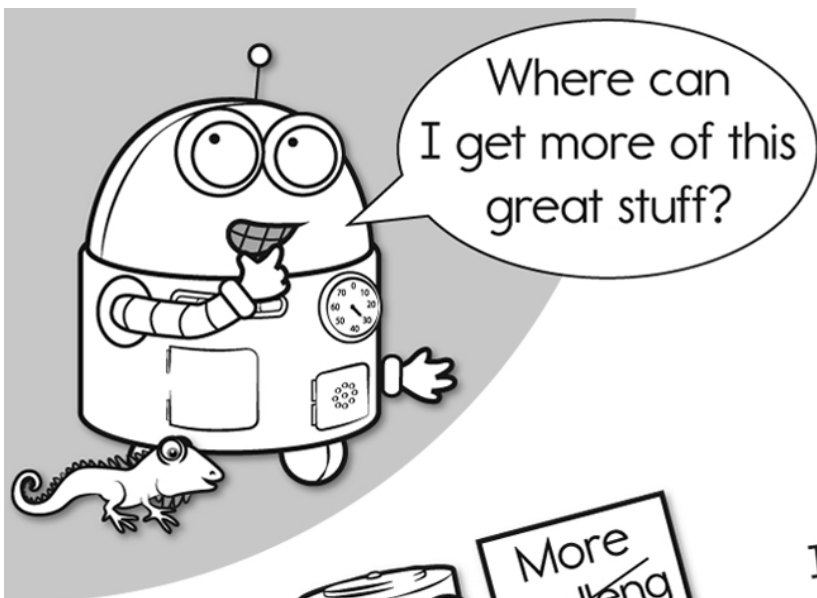
Additional hints:

$$B < 7 \quad A = B + 6$$

Show Work:

Solve:

$$? = \underline{\quad}$$

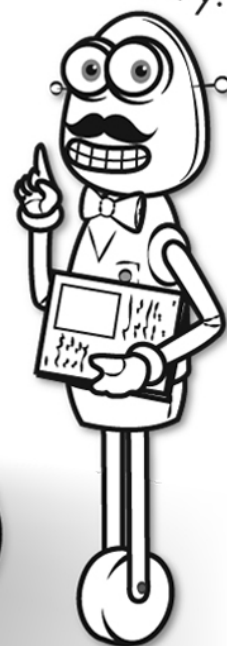


It's NO PREP at edHelper.

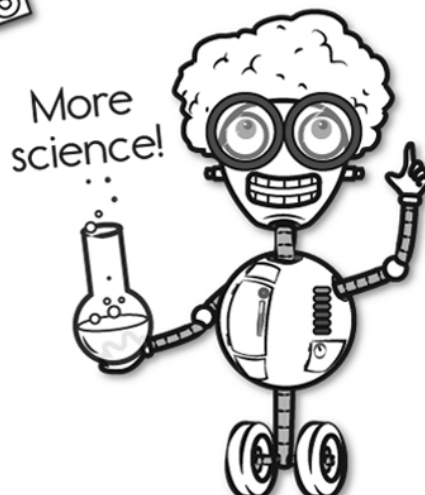
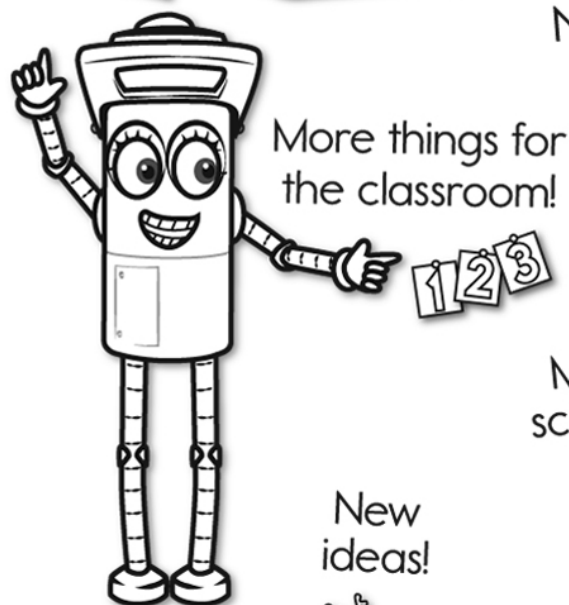
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Math symbols: \times , $=$, $-$, \div , $<$, $-$, $>$

More puzzles!

