

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 8 in your head

double it

add 1

Write the tens digit.

\_\_\_\_\_ **A**

imagine 2 in your head

multiply 6

subtract 6

subtract 3

multiply 4

add 6

Add the tens digit to the ones digit.

Write the sum.

\_\_\_\_\_ **B**

imagine 3 in your head

multiply 6

add 9

add 6

Write the ones digit.

\_\_\_\_\_ **C**

imagine 4 in your head

add 5

double it

subtract 6

subtract 7

Write the number.

\_\_\_\_\_ **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?

\_\_\_\_\_ **h** \_\_\_\_\_ **t** \_\_\_\_\_

5 before 12 \_\_\_\_\_

6 after 11 \_\_\_\_\_

2 after 13 \_\_\_\_\_

2 before 16 \_\_\_\_\_

4 after 14 \_\_\_\_\_

8 after 17 \_\_\_\_\_

7 before 17 \_\_\_\_\_

9 after 18 \_\_\_\_\_

5 after 15 \_\_\_\_\_

Name: \_\_\_\_\_

$$650 - 6427 =$$

$$910 + 89 =$$

79 is how much more than 645?

Write the reciprocal.  
16

Reduce  $\frac{5}{20}$  to its lowest terms.

Reduce  $\frac{15}{25}$  to its lowest terms.

$$\begin{array}{r} 18.01 \\ \times 0.4 \\ \hline \end{array}$$

$$1,000 \times 10.1 =$$

$$\begin{array}{r} 11.6 \\ + 2.24 \\ \hline \end{array}$$

$$12 \overline{) 1.428}$$

$$0.16 \overline{) 9.456}$$

$$\begin{array}{r} 76.62 \\ 12.4 \\ 23.15 \\ 5.7 \\ + 355.134 \\ \hline \end{array}$$

$$\begin{array}{r} 19.837 \\ - 14.661 \\ \hline \end{array}$$

$$17.8782 \times 10,000 =$$

$$\begin{array}{r} 9.01 \\ \times 0.6 \\ \hline \end{array}$$

74.7	-2				-13.8			
		-9.4		+29.5		+3.3		
-35		+4.1		-5.6		-34.2		
				27.3				
+6.9		-29		+17		+36.5	+7	50

88.2	-43.5			45.5	-37.7	7.8		
		-4		-33.6		-1		
	-24.9			79.1				
+29				-13		+6		
	-5.1		+52.4	92.1			+9.8	22.6

$$40 \div 4 = \underline{\hspace{2cm}}$$

Name: \_\_\_\_\_

Mental Math

— #1 —

☺ Start with the number 834.

834

☺ Add the number of dimes in a dollar.

6 8 4 4 5 2 7 7 9 0 (Circle your answer to double check you are correct.) \_\_\_\_\_

☺ Add half of 48.

3 2 7 8 6 8 9 3 1 4 \_\_\_\_\_

☺ Subtract 15.

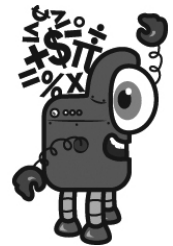
5 5 4 2 8 8 5 3 6 8 \_\_\_\_\_

☺ Add the digits in your number. The sum of that is your new number.

4 2 8 9 7 5 1 6 2 4 \_\_\_\_\_

☺ Multiply by 10.

8 5 2 9 1 6 0 7 1 0 \_\_\_\_\_



Mental Math

— #2 —

 Start with the number of wheels on 6 cars.

2 4 6 6 9 7 5 6 1 3 (Circle your answer to double check you are correct.) \_\_\_\_\_

 Add half of 46.

3 6 4 7 6 1 5 2 4 9 \_\_\_\_\_

 Round to the nearest ten.

2 7 3 5 6 7 4 5 0 6 \_\_\_\_\_

 Increase that number by 6.

5 6 9 2 4 4 5 2 2 9 \_\_\_\_\_

 Find seven-eighths.

7 3 5 2 1 2 6 4 9 5 \_\_\_\_\_

 Subtract 20.

8 2 9 2 2 2 1 2 6 6 \_\_\_\_\_



Name: \_\_\_\_\_

<p>Nathan bought 14 tickets to the state fair. He and his friends wanted to watch the horse judging. Each ticket cost \$12.75. How much did he spend?</p>	<p>The Dressed Up Pet Parade began at 3:42 p.m. The parade was over fifty-five minutes later. What time did the parade end?</p>	<p>Justin was bored. He went outside to find something to do. His mother was planting flowers. Justin offered to help her. They planted flowers from 2:20 p.m. until 5:16 p.m. They talked and had a good time together. How long did Justin and his mother work together?</p>
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<p>What number is halfway between 4 and 12?</p>	$\begin{array}{r} 96 \\ - 71 \\ \hline \end{array}$	$3 \times 2 = \underline{\hspace{2cm}}$	$\begin{array}{r} 48 \\ + 48 \\ \hline \end{array}$
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<p>92,395 - 49,583 = _____</p> <p>125 + 733 = _____</p>	<p>Wendy rolls two dice. She adds the numbers on the two dice. What is the chance of this sum being ten?</p>
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<p>Circle the addition property for <math>37 + 195 = 195 + 37</math>.</p> <p>associative property</p> <p>commutative property</p>	<p>How many pounds are in 112 ounces?</p> <p>_____ pounds</p>
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Name: \_\_\_\_\_

### What Words? Your Words!

Fill in the boxes with letters to make words. Each box is worth points. Earn points by filling in as many boxes as you can. Sum up the points you earn for each word.

Once you use a letter, cross it off on the bottom. You cannot use the same letter more than once.

Make a Word

Sum

1 2 4 6 12  
E L B O W S

13

1 2 4 8 12  
U

1 4 8 14 20  
G R I

A ~~X~~ C D ~~X~~ F ~~X~~ H ~~X~~ J K ~~X~~ M  
N ~~X~~ P Q ~~X~~ R ~~X~~ T ~~X~~ V ~~X~~ X Y Z

Make a Word

Sum

1 2 4 6 12 18  
S O

1 2 4 6 10 16  
A L

~~X~~ B C D E F G H I J K ~~X~~ M  
N ~~X~~ P Q R ~~X~~ T U V W X Y Z

You have four digits to use in an addition problem: 2, 8, 6, and 3. Make up a problem where you have two 2-digit numbers. What is the largest sum you can make?

$$84,879 + 16,477 = \underline{\hspace{2cm}}$$

$$1 \text{ km} = 1,000 \text{ m}$$

$$23 \text{ km} = \underline{\hspace{2cm}} \text{ m}$$

$$\begin{array}{r} 882 \\ - 695 \\ \hline \end{array}$$

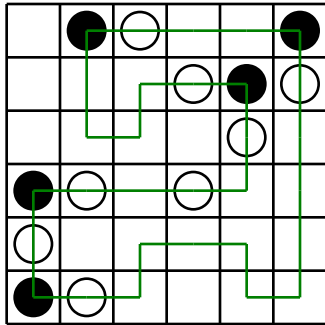
For 4,881,558,190,402, write the digit that is in the hundred thousands place.

\_\_\_\_\_

$$12 \times 4 = \underline{\hspace{2cm}}$$

$$\begin{array}{r} 390 \\ + 231 \\ \hline \end{array}$$

Name: \_\_\_\_\_

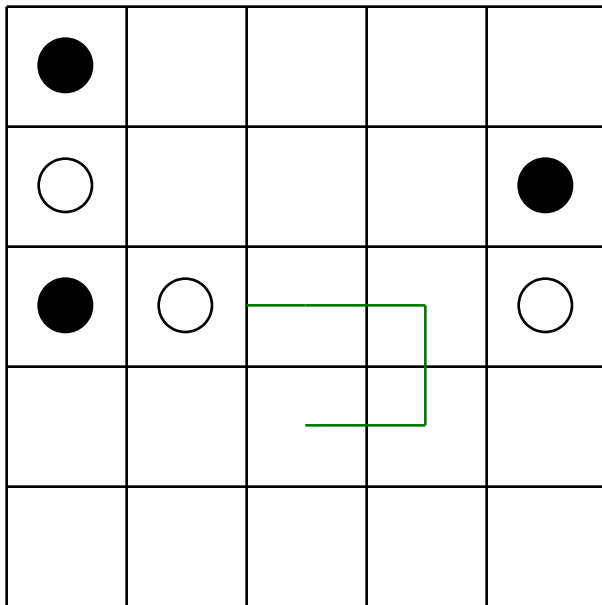


Can you draw ONE line going through ALL the circles? Your line can go left, right, up, or down. It cannot go diagonally. Your line cannot cross over any part of the line you have already drawn.

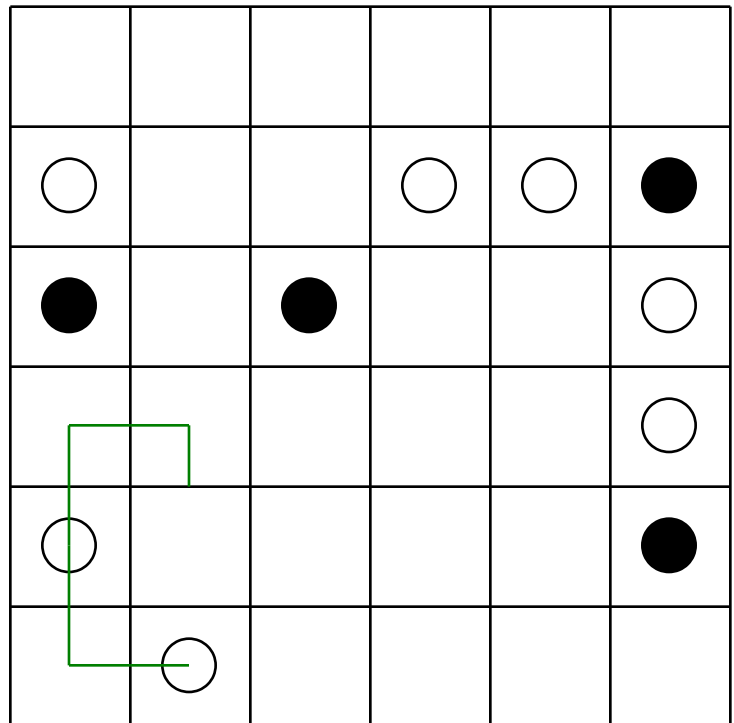
You MUST TURN in a BLACK circle. Do NOT TURN in a WHITE circle.

The puzzle on the left shows a correct line going through all the circles.

Finish the line:



Finish the line:



$$28 \div 7 = \underline{\hspace{2cm}}$$

$$14 \text{ lb} = \underline{\hspace{2cm}} \text{ oz}$$

$$8 \times 8 = \underline{\hspace{2cm}}$$

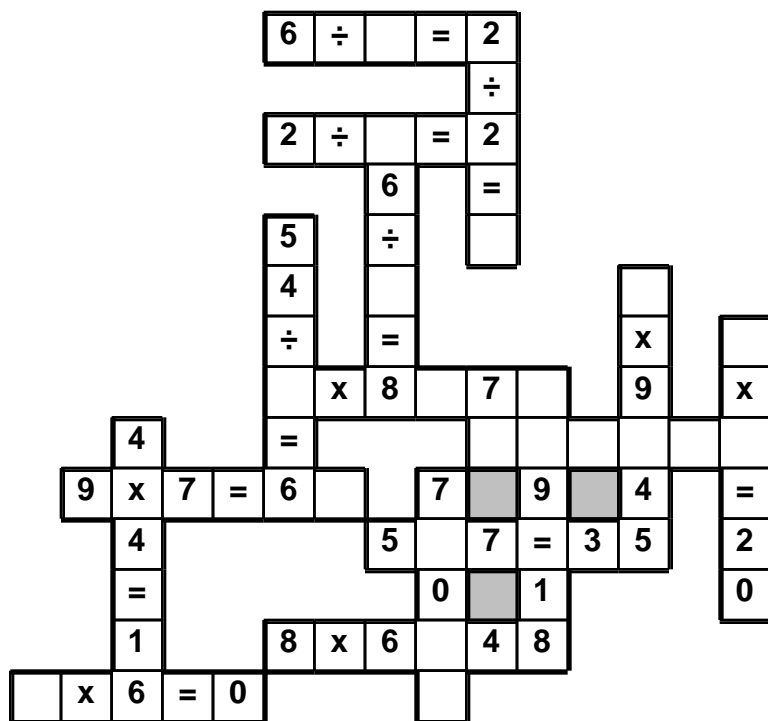
$$77 \div 7 = \underline{\hspace{2cm}}$$

Maria told Emma that she multiplied two consecutive whole numbers and the answer is 46. Emma doesn't believe that is possible. She thinks Emma must have multiplied wrong. Who is correct?

Name: \_\_\_\_\_

3 • 1 • 1 • 2 • 5 • 4 • 9 • = • 2 • 5 • x • 3 • = • 1 • 5 • 3 • x  
= • 0 • 0

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



Write 5,832,180 in words.

\_\_\_\_\_

70 ÷ 10 = \_\_\_\_\_

Maria rolls a die. What is the chance of her rolling a 6?

\_\_\_\_\_

Circle the smallest number:

632,079,590,481

5,814

72,369,538

21,607

7 x 8 = \_\_\_\_\_

5 x 6 = \_\_\_\_\_

8 ÷ 2 = \_\_\_\_\_



Name: \_\_\_\_\_

$$5 + \frac{2}{3} - \frac{3}{5} =$$

$$39 - \frac{4}{7} =$$

Reduce  $\frac{18}{36}$  to its lowest terms.

Write the reciprocal.

$$\frac{12}{16}$$

Write the reciprocal.

$$\frac{20}{19}$$

Write the reciprocal.

$$\frac{4}{1}$$

$$3\frac{1}{2} \times 3\frac{1}{5} =$$

$$\frac{7}{12} \times 11 =$$

$$\frac{1}{4} \times 7 =$$

Write the reciprocal.

$$9$$

Write the reciprocal.

$$\frac{1}{7}$$

Write the reciprocal.

$$10$$

Name: \_\_\_\_\_

Find the difference  
between 571 and 63.

$$\begin{array}{r} 8 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 92 \\ + 28 \\ \hline \end{array}$$

$$\begin{array}{r} 805 \\ 40 \\ 459 \\ + 99 \\ \hline \end{array}$$

$$\begin{array}{r} 88 \\ 408 \\ 18 \\ + 308 \\ \hline \end{array}$$

$$\begin{array}{r} 90 \\ + 29 \\ \hline \end{array}$$

$$\begin{array}{r} 512 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 43 \\ \times 12 \\ \hline \end{array}$$

$$\begin{array}{r} 185 \\ \times 15 \\ \hline \end{array}$$

$$\begin{array}{r} 24 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 22 \\ \times 14 \\ \hline \end{array}$$

$$\begin{array}{r} 48 \\ \times 12 \\ \hline \end{array}$$

Reduce  $\frac{5}{40}$  to its lowest  
terms.

Reduce  $\frac{45}{85}$  to its lowest  
terms.

Reduce  $\frac{15}{36}$  to its lowest  
terms.

Name: \_\_\_\_\_

Complete each analogy with the best word.

short	lasagna	faithful
judgment	sheep	grain
horses	Pericles	questioning
united	giving	backbone
Plato	fur	development
sad		

occur : occurrence ::

develop : \_\_\_\_\_

teacher : Socrates ::

student : \_\_\_\_\_

clutter : keeping ::

sparsity : \_\_\_\_\_

paper : trees ::

flour : \_\_\_\_\_

ice cream : pasta ::

sundae : \_\_\_\_\_

witness : testimony ::

jury : \_\_\_\_\_

treason : loyalty ::

divided : \_\_\_\_\_

major : happy ::

minor : \_\_\_\_\_

marsupial : pouch ::

vertebrate : \_\_\_\_\_

herd : cows ::

flock : \_\_\_\_\_

S A L T U P B U T T E R F L Y N I  
L A M S E P A R A T E D M P D A K  
G I V I N G B T S C U I A H E O H  
I S B R L B G R E H R C N O V N S  
E C A L N K G L A N N I A T E O I  
V I I R O T I U S S T N G O L I N  
A H C N S L U N G S S S E S O N U  
R P A O D E T I N U B E R Y P A P  
C Y R S D N O M L A E C E N M P H  
P L S R C T E S E U H T G T E M I  
J G R A A R A O M L A C R H N O J  
U O B A D A O R E E V A A E T C E  
D R A R K A N S A S I R Z S F R D  
G E C U P A E A S S O T E I L L O  
M I K N E O J E N W R E B S O S G  
E H B C O V O A A G A R Z N W H R  
N I O O T J H C I R A L R A E E A  
T C N V A C I E P L S S K V R E I  
S M E E L E L A C S A T A H L P N  
J W A R P Z W E A T H E R L L I T

UNITED • DEVELOPMENT  
JUDGMENT • BACKBONE  
MANAGER • COOP • BRASS  
HIEROGLYPHICS • PUNISH  
RAZE • SUITOR • BUTTERFLY  
MILK • GIVING • CAR  
INSECT • CROSSWALK  
LASAGNA • FLOWER  
COMPANION • EARS • JAIL  
SEPARATED • SHEEP • ARKANSAS  
CRAVE • UNCOVER • GRAIN  
ALMONDS • PHOTOSYNTHESIS  
WEATHER • RETRACT • LUNGS  
PATENT • SCALE • GRAZE  
BEHAVIOR • PLATO • SAD  
DOG • SALT

Name: \_\_\_\_\_

$$67.18 \div 10,000 =$$

- A) 0.006718
- B) 6.718
- C) 6718
- D) 10.6718

Which even number is between 50 and 70 and is a multiple of six?

- A) 65
- B) 53
- C) 60
- D) 72

Which of these is a prime number?

- A) 21
- B) 56
- C) 43
- D) 30

$$4900 \div 7 =$$

- A) 103
- B) 700
- C) 3000
- D) 705

$$(-4)(-8)(-6)?$$

- A) -192
- B) 56
- C) -59
- D) 192

Jane's room is eight hundred square feet. Which of the following is the correct measurement of Jane's room?

- A) 31 ft by 26 ft
- B) 33 ft by 43 ft
- C) 25 ft by 32 ft
- D) 27 ft by 31 ft

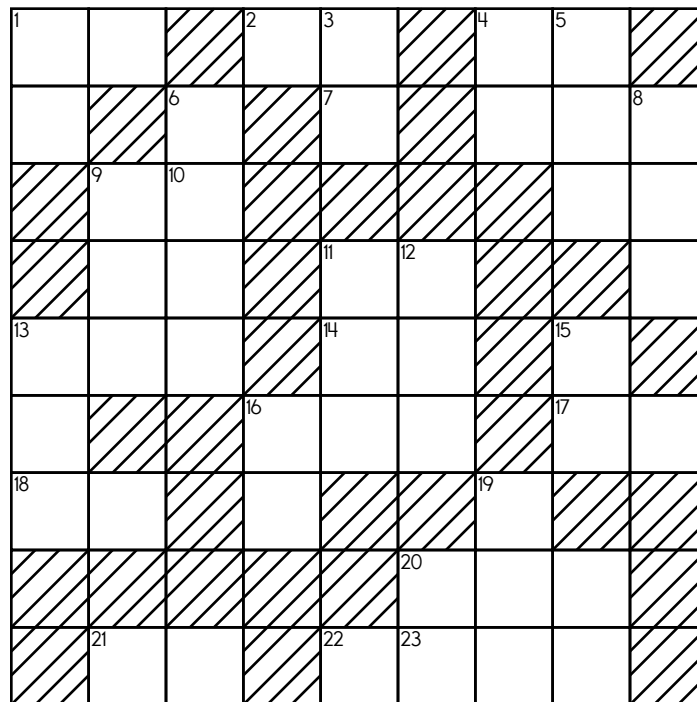
Name: \_\_\_\_\_

**ACROSS**

1.  $5 + 12$
2.  $3 + 18$
6. One-third of 2-Across
7.  $9 + 9 = 2 \times \underline{\hspace{1cm}}$
9. Five less than 16-Down
11.  $4 + 17$
14. Nickels in four dollars
17. Seven more than 4-Down
18. One-fourth of 10-Down
20. 15-Down plus 10-Down
21. Two times 18-Across
23. Seven more than 20-Across

**DOWN**

1. Five less than 9-Across
3.  $6 + 13$
4. One-fourth of 8-Down
5. Four more than 9-Down
8. 20-Across plus 1-Down
9. 8-Down plus 16-Down
10. 14-Across plus 15-Down
12. Five times 9-Across
13. Five more than 8-Down
14. Nine more than 15-Down
15. Four less than 14-Across
16. One-sixth of 10-Down
19. Seven times 3-Down
22. One-third of 11-Across



$11 \times 11 = \underline{\hspace{2cm}}$	$90 \div 10 = \underline{\hspace{2cm}}$	$18 \div 6 = \underline{\hspace{2cm}}$
$27 \div 9 = \underline{\hspace{2cm}}$		

Name: \_\_\_\_\_

What is the greatest common factor of 18 and 27?

$$6 + y = 17$$

$$y + 23 = 36$$

What is the least common multiple of 10 and 5?

What is the greatest common factor of 6, 24, and 33?

What is the least common multiple of 6 and 10?

$$n + 40 = 53$$

What is the least common multiple of 12, 13, and 40?

Is the least common multiple of 2 and 8 smaller, equal to, or greater than the greatest common factor of 2 and 8?

$$21 - x = 11$$

$$n - 12 = 23$$

$$m + 23 = 38$$

Name: \_\_\_\_\_

Draw a line to match each problem with the same answer.

88% of 75

28% of 75

35% of 40

25% of 56

21% of 100

30% of 20

12% of 150

75% of 152

15% of 40

73% of 100

36% of 50

76% of 150

50% of 146

66% of 100

74% of 100

37% of 200

$$7 + 3 \cdot 4 + 11$$

Rewrite  $\frac{3}{25}$  as a decimal.

69, 88, 107, \_\_\_\_\_, 145,  
164, 183, 202

If  $a = 4$  and  $b = 51.6$ ,  
then  
 $3a + b - a =$

What is the value of  $h$ ?

$$9h + 13 - 6h = -7$$

Use  $>$ ,  $<$ , or  $=$  to complete.

$$56\% \text{ — } \frac{1}{12}$$

$$\frac{1}{2} \text{ — } 71\%$$

$$\frac{2}{7} \text{ — } 28\%$$

If  $n = -7$  and  $m = 19$  then  
what is  $6n - 8m - 3m = ?$

$$15t - 9.2 = 43.3$$

$$t =$$

$$\frac{9}{24} \div \frac{4}{6} =$$

$$16.3196 \times 10^3 =$$

$$8 + 60 \div 5 - 30 \div 6 =$$

$$16p - 22.4 = 57.6$$

$$p =$$

Name: \_\_\_\_\_

Kevin decided to run one mile every 4 days. Alex decided to run two miles every 3 days. If they both start on Wednesday, May 25, when will they both run on the same day again?

Two-thirds of the students in the fourth grade at Geneva Elementary don't know the fable "Androcles and the Lion." If 100 students in the fourth grade don't know about "Androcles and the Lion", how many students are in the fourth grade at Geneva Elementary?

At the mud factory, Purple's job is to scoop up mud and make it into kilogram blocks of mud. She loves her job! Today there were 3,314,662 milligrams of mud trucked in. Each mud block is precisely 1 kilogram, no less, no more. How many mud blocks can she make today?

Megan can't wait for her friend to visit.

"As soon as you leave the airport, drive 23 miles to exit 5," says Megan.

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

Help Megan tell Amy how many kilometers to drive. Use 1 mile = 1.6 kilometers.



Name: \_\_\_\_\_

$\begin{array}{r} 99 \\ - 19 \\ \hline \end{array}$	$\begin{array}{r} 59 \\ - 50 \\ \hline \end{array}$	$\begin{array}{r} 47 \\ - 40 \\ \hline \end{array}$	$\begin{array}{r} 44 \\ - 12 \\ \hline \end{array}$	$\begin{array}{r} 47 \\ - 20 \\ \hline \end{array}$	$\begin{array}{r} 49 \\ - 30 \\ \hline \end{array}$
$\begin{array}{r} 75 \\ - 28 \\ \hline \end{array}$	$\begin{array}{r} 84 \\ - 43 \\ \hline \end{array}$	$\begin{array}{r} 98 \\ - 57 \\ \hline \end{array}$	$\begin{array}{r} 71 \\ - 54 \\ \hline \end{array}$	$\begin{array}{r} 36 \\ - 20 \\ \hline \end{array}$	$\begin{array}{r} 24 \\ - 11 \\ \hline \end{array}$



$97 - 95 =$

$76 - 41 =$

$68 - 51 =$

$93 - 83 =$

$82 - 14 =$

$85 - 50 =$

$62 - 38 =$

$81 - 11 =$

$46 - 17 =$

$77 - 74 =$

$70 - 40 =$

$86 - 76 =$



$\_\_ \times 4 = 120$

$44 \times \_\_ = 308$

$47 \times \_\_ = 141$

$\_\_ \times 6 = 534$

$\_\_ \times 6 = 426$

$71 \times \_\_ = 497$

$\_\_ \times 4 = 72$

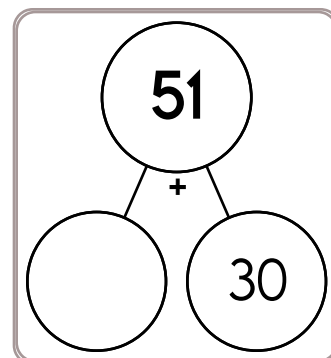
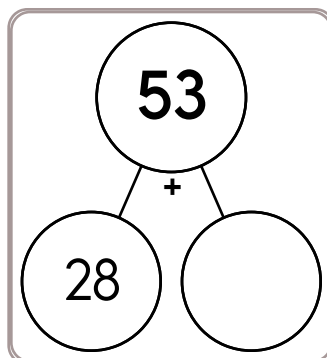
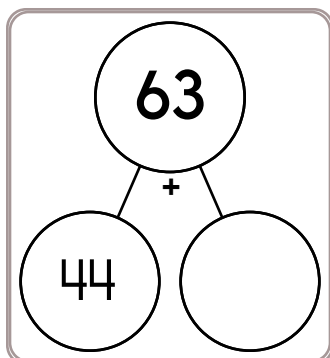
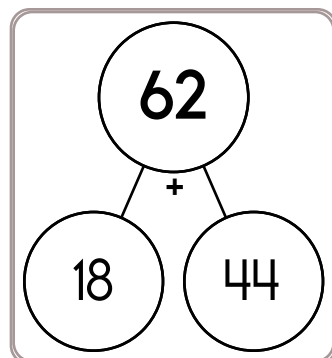
$27 \times \_\_ = 162$

$50 \times \_\_ = 350$

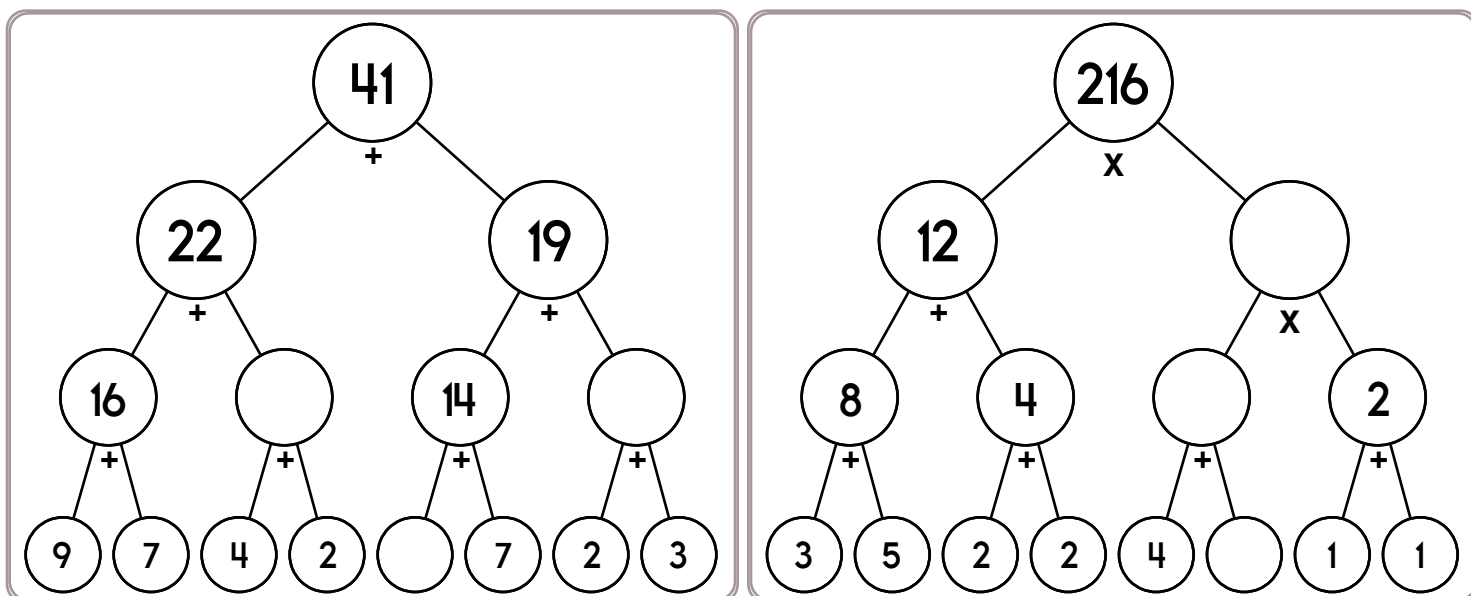
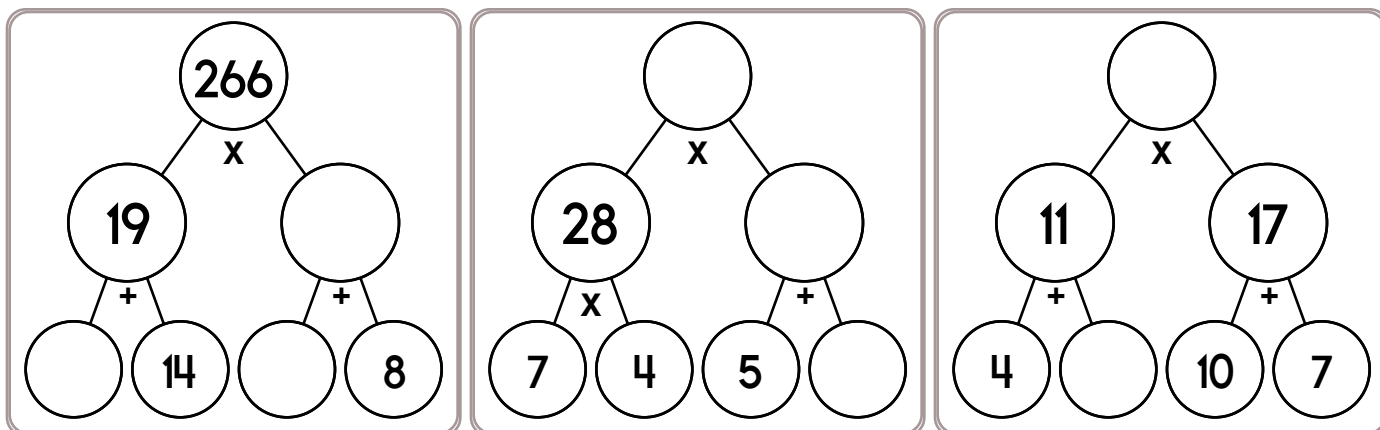
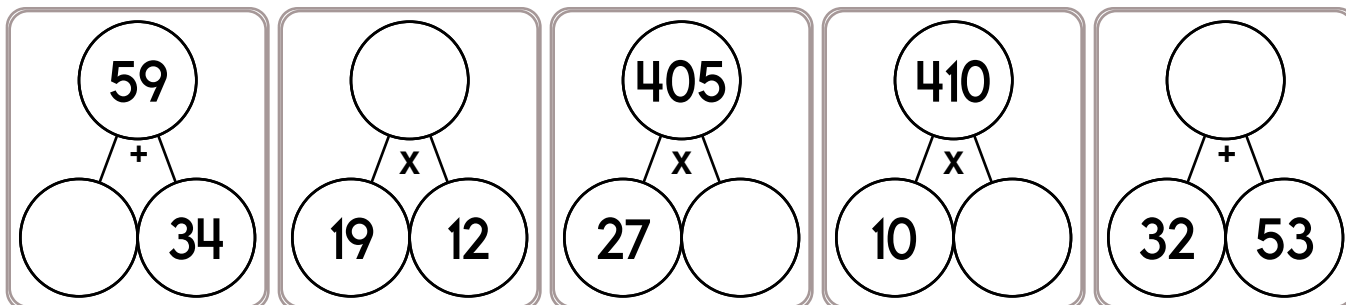
$\_\_ \times 3 = 33$

$\_\_ \times 7 = 371$

$48 \times \_\_ = 384$



Name: \_\_\_\_\_



If  $4x = 60$ , then  $x =$

$5 \times 2 \times 9 + 12 - 9$


$|-15| - t = 11$

$t =$

Name: \_\_\_\_\_


**Pay the bill!**

Rent is due. Rose needs to pay her landlord \$3,000. Her landlord's name is Sarah Jackson.

ROSE	1131
DATE _____	
PAY TO THE ORDER OF _____	\$ <input style="width: 100px;" type="text"/>
_____ DOLLARS	
MEMO _____	
	

**Pay the bill!**

Rose received a bill from Central Water for \$264.36. Write the check as Rose would write it.

ROSE	1132
DATE _____	
PAY TO THE ORDER OF _____	\$ <input style="width: 100px;" type="text"/>
_____ DOLLARS	
MEMO _____	
	

$$\begin{array}{r} 0.64 \\ - 0.336 \\ \hline \end{array}$$

$$\begin{array}{r} 378.5 \\ + 2.74 \\ \hline \end{array}$$

$$\begin{array}{r} 0.9 \\ - 0.1 \\ \hline \end{array}$$

What is the remainder of 30 divided by 4?

$p - \$60 = \$33$   
What is the value of p?

$$|-57| + |43| =$$

Name: \_\_\_\_\_

Words can be to the RIGHT, DOWN, LEFT, or UP. Every letter is used ONCE.

S E C N E R R O H B A C D A R  
M B Y S Q U I R R E L O I T E  
I P E R I M E T E R S N S D G  
R E B H S I R U O L F D M A N  
E N C A M P M E N T S O A O I  
G W S T N A R I P S A N Y R F  
O E R E D R O W E E D E R A F  
H I D U N S U C C E S S F U L

Write the words found.

UNSUCCESSFUL	FAR	

Write the missing family fact.

$$78 + 68 = 146$$

$$146 - 68 = 78$$

$$68 + 78 = 146$$

\_\_\_\_\_

$$9,571 - 4,637 = \underline{\hspace{2cm}}$$

Circle the digit in the hundredths place.

31.345

You are given five cards. One card has the number 1 on it, another card has a 2, another card has a 3, another card has a 4, and the last card has the number 5 on it. Use two cards to make a fraction. What is the smallest fraction that you can make?

$$4 \times 6 = \underline{\hspace{2cm}}$$

$$83,722 - 37,767 = \underline{\hspace{2cm}}$$



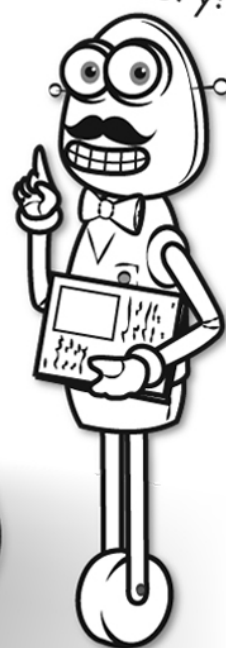
It's NO PREP at edHelper.

More history!

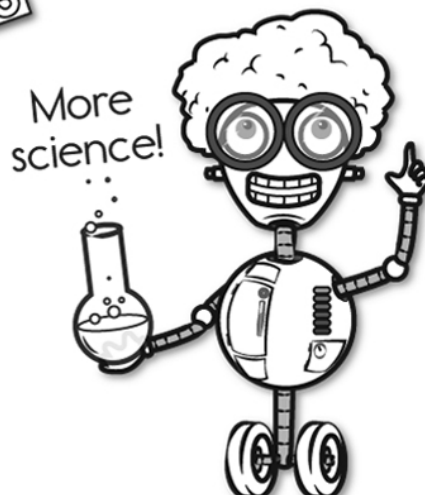


# edHelper.com!

New online math games!



New ideas!



x  
+ =  
- ÷  
< >

More puzzles!



