

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

Make a path by adding up the numbers. Do not visit a circle more than once. The first one is done.

START 3	5	6	9
1	2	9	5
7	1	5	FINISH SUM: 17

3 + 1 + 7 + 1 + 5 = 17

START 1	6	2	3
8	9	3	5
5	1	4	FINISH SUM: 23

1 + 8 +     +     +     = 23

START 8	7	9	9
6	7	6	6
7	9	9	FINISH SUM: 39

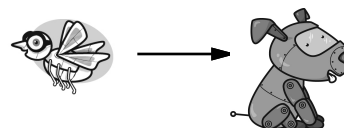
8 + 7 +     +     +     = 39


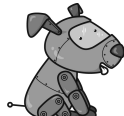
START 4	2	3	9
8	4	1	6
7	4	2	FINISH SUM: 19

Did you find a path? Write the equation.

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

Help Robot find Rover. Make a path of increasing sums. You can only move to a box with a larger sum. Draw a line to show your path.



	$\begin{array}{r} 95 \\ + 95 \\ \hline \end{array}$	$\begin{array}{r} 52 \\ + 12 \\ \hline \end{array}$	$\begin{array}{r} 50 \\ + 16 \\ \hline \end{array}$	$\begin{array}{r} 17 \\ + 35 \\ \hline \end{array}$	$\begin{array}{r} 53 \\ + 31 \\ \hline \end{array}$	$\begin{array}{r} 40 \\ + 38 \\ \hline \end{array}$	$\begin{array}{r} 18 \\ + 17 \\ \hline \end{array}$	$\begin{array}{r} 61 \\ + 26 \\ \hline \end{array}$
$\begin{array}{r} 12 \\ + 27 \\ \hline \end{array}$	$\begin{array}{r} 31 \\ + 22 \\ \hline \end{array}$	$\begin{array}{r} 42 \\ + 23 \\ \hline \end{array}$	$\begin{array}{r} 27 \\ + 43 \\ \hline \end{array}$	$\begin{array}{r} 30 \\ + 44 \\ \hline \end{array}$	$\begin{array}{r} 37 \\ + 41 \\ \hline \end{array}$	$\begin{array}{r} 62 \\ + 19 \\ \hline \end{array}$	$\begin{array}{r} 52 \\ + 30 \\ \hline \end{array}$	$\begin{array}{r} 43 \\ + 73 \\ \hline \end{array}$
$\begin{array}{r} 33 \\ + 52 \\ \hline \end{array}$	$\begin{array}{r} 85 \\ + 74 \\ \hline \end{array}$	$\begin{array}{r} 90 \\ + 47 \\ \hline \end{array}$	$\begin{array}{r} 39 \\ + 46 \\ \hline \end{array}$	$\begin{array}{r} 98 \\ + 96 \\ \hline \end{array}$	$\begin{array}{r} 18 \\ + 90 \\ \hline \end{array}$	$\begin{array}{r} 76 \\ + 61 \\ \hline \end{array}$	$\begin{array}{r} 74 \\ + 12 \\ \hline \end{array}$	$\begin{array}{r} 63 \\ + 29 \\ \hline \end{array}$
$\begin{array}{r} 75 \\ + 81 \\ \hline \end{array}$	$\begin{array}{r} 20 \\ + 92 \\ \hline \end{array}$	$\begin{array}{r} 15 \\ + 99 \\ \hline \end{array}$	$\begin{array}{r} 96 \\ + 64 \\ \hline \end{array}$	$\begin{array}{r} 41 \\ + 76 \\ \hline \end{array}$	$\begin{array}{r} 37 \\ + 19 \\ \hline \end{array}$	$\begin{array}{r} 13 \\ + 60 \\ \hline \end{array}$	$\begin{array}{r} 28 \\ + 67 \\ \hline \end{array}$	$\begin{array}{r} 19 \\ + 75 \\ \hline \end{array}$
$\begin{array}{r} 77 \\ + 34 \\ \hline \end{array}$	$\begin{array}{r} 27 \\ + 67 \\ \hline \end{array}$	$\begin{array}{r} 61 \\ + 64 \\ \hline \end{array}$	$\begin{array}{r} 55 \\ + 45 \\ \hline \end{array}$	$\begin{array}{r} 38 \\ + 56 \\ \hline \end{array}$	$\begin{array}{r} 79 \\ + 49 \\ \hline \end{array}$	$\begin{array}{r} 34 \\ + 63 \\ \hline \end{array}$	$\begin{array}{r} 15 \\ + 84 \\ \hline \end{array}$	$\begin{array}{r} 37 \\ + 60 \\ \hline \end{array}$
$\begin{array}{r} 59 \\ + 14 \\ \hline \end{array}$	$\begin{array}{r} 90 \\ + 42 \\ \hline \end{array}$	$\begin{array}{r} 34 \\ + 39 \\ \hline \end{array}$	$\begin{array}{r} 49 \\ + 23 \\ \hline \end{array}$	$\begin{array}{r} 25 \\ + 86 \\ \hline \end{array}$	$\begin{array}{r} 99 \\ + 13 \\ \hline \end{array}$	$\begin{array}{r} 20 \\ + 91 \\ \hline \end{array}$	$\begin{array}{r} 47 \\ + 54 \\ \hline \end{array}$	$\begin{array}{r} 64 \\ + 13 \\ \hline \end{array}$
$\begin{array}{r} 63 \\ + 50 \\ \hline \end{array}$	$\begin{array}{r} 71 \\ + 51 \\ \hline \end{array}$	$\begin{array}{r} 11 \\ + 75 \\ \hline \end{array}$	$\begin{array}{r} 28 \\ + 54 \\ \hline \end{array}$	$\begin{array}{r} 21 \\ + 16 \\ \hline \end{array}$	$\begin{array}{r} 51 \\ + 66 \\ \hline \end{array}$	$\begin{array}{r} 35 \\ + 65 \\ \hline \end{array}$	$\begin{array}{r} 46 \\ + 29 \\ \hline \end{array}$	$\begin{array}{r} 77 \\ + 83 \\ \hline \end{array}$
$\begin{array}{r} 17 \\ + 17 \\ \hline \end{array}$	$\begin{array}{r} 81 \\ + 24 \\ \hline \end{array}$	$\begin{array}{r} 30 \\ + 77 \\ \hline \end{array}$	$\begin{array}{r} 42 \\ + 69 \\ \hline \end{array}$	$\begin{array}{r} 91 \\ + 33 \\ \hline \end{array}$	$\begin{array}{r} 22 \\ + 99 \\ \hline \end{array}$	$\begin{array}{r} 76 \\ + 46 \\ \hline \end{array}$	$\begin{array}{r} 93 \\ + 33 \\ \hline \end{array}$	

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 2 in your head

add 3

subtract 3

Write the number.

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

imagine 4 in your head

add 7

double it

add 2

subtract 7

subtract 9

Write the number.

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

imagine 7 in your head

add 2

subtract 8

add 1

add 8

Write the even digit  
in your answer.

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

imagine 7 in your head

double it

add 3

subtract 7

add 1

add 2

Write the tens 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** \_\_\_\_\_

4 before 18 \_\_\_\_\_

3 after 13 \_\_\_\_\_

3 before 14 \_\_\_\_\_

8 before 11 \_\_\_\_\_

4 after 19 \_\_\_\_\_

9 before 12 \_\_\_\_\_

2 before 13 \_\_\_\_\_

5 after 18 \_\_\_\_\_

7 before 19 \_\_\_\_\_

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

Anne's father has been working at Mountain Springs Manufacturing for five years. Last week his hourly salary was raised from \$14.04 per hour to \$17.12 per hour. If he works forty hours per week, how much more will he make each week?

Maria has 32 marshmallows. She arranged them in 4 groups so that each group has the same number of marshmallows. How many marshmallows are in each group?

Amanda drew four squares side-by-side. Each square has the same perimeter of 20 centimeters. What is the perimeter of the larger rectangle created by the four squares?

For some reason Mr. Anderson has 2 chairs. The students in the class each have one chair. Why else would they need more? All of the chairs have 4 legs. All of the kids and Mr. Anderson have 2 legs. There is a total of 118 legs in the classroom (including human legs and chair legs). How many students are there?

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

Complete each pattern. Write what the rule is.

7	35	175	875	4,375
9		144	576	2,304
8	72		5,832	52,488
5	40		2,560	

Complete each pattern. Write what the rule is.

17, 25, 33, 42, 51, 61, 71, 82, 93, 105, 117, 130, \_\_\_\_\_, \_\_\_\_\_, 171, 186

16, 24, \_\_\_\_\_, \_\_\_\_\_, 50, 60, 70, 81, 92, 104, 116, 129, \_\_\_\_\_, 156

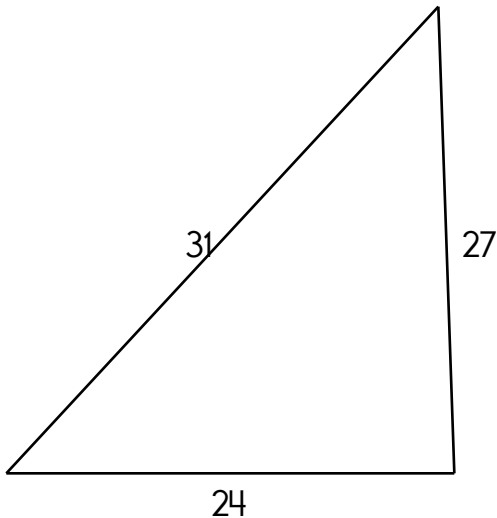
18, 26, 34, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, 83, 94, 106, 118, 131, 144, 158

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

April bought two packages of valentines. One package cost \$1.88. The other package cost \$0.88. How much did the two packages cost in all?

Mr. Thompson made up a holiday. His holiday is "Tall as a Tower Day." Mr. Thompson is very tall. He is 6 ft 2 in. tall. His best friend is 8 inches shorter than he is. How tall is Mr. Thompson's best friend?

Emma is playing "Penguin Parade" with her best friend. The spinner for the game has ten spaces. Four of the spaces have two penguins on them. The rest have one penguin on them. On Emma's first spin, what is the chance the pointer will stop on a space with one penguin?



The perimeter is \_\_\_\_\_.

Write an odd number with a two in the thousands place.

\_\_\_\_\_

How many days are there in two full weeks?

\_\_\_\_\_

$$\begin{array}{r} 39 \\ - 26 \\ \hline \end{array}$$

$$2 \overline{)10}$$

Make a pattern.  
Start with 39.  
Subtract 7; add 6.

\_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

Calculate the product of 4 and 2.

\_\_\_\_\_

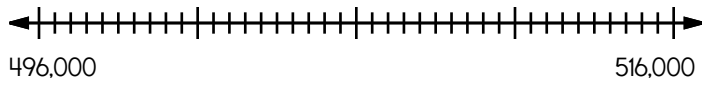
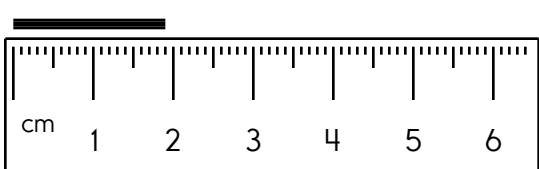
word root **contra** can mean **against**

**contradict, contrary**

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

$\begin{array}{r} 88 \\ - 61 \\ \hline \end{array}$	List the first three multiples of 7. _____	$\begin{array}{r} 2 \\ 3 \\ + 69 \\ \hline \end{array}$	$\begin{array}{r} 1 \\ 6 \\ + 35 \\ \hline \end{array}$	$\begin{array}{r} 60 \\ - 21 \\ \hline \end{array}$
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Fill in the missing fractions. $\frac{1}{6}$ , _____ , _____ , $\frac{4}{6}$	One side of a square measures ten centimeters. What is the area of this square? _____	$\begin{array}{r} 2 \\ \times 10 \\ \hline \end{array}$
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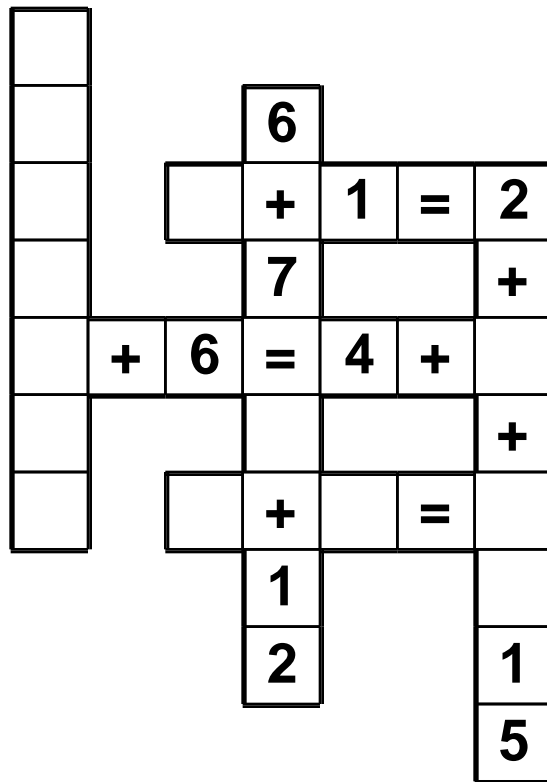
Locate where to put the number 505,500 and label the point M. 	Write the length in centimeters. 
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How many seconds are in three minutes? _____	<input type="radio"/> tieth <input type="radio"/> teeth <input type="radio"/> toeth <input type="radio"/> teath	$9 \times 4 = \underline{\hspace{2cm}}$ $10 \times 7 = \underline{\hspace{2cm}}$
---	--	---

The factors of 12 are _____ 3 _____ 6 _____	Which number is greater: 0.9 or 0.83? _____
---	--

<input type="radio"/> boast <input type="radio"/> bost <input type="radio"/> baust <input type="radio"/> baost	It is 80 degrees Fahrenheit outside. What would you wear if you are going outside? _____	What are the first four multiples of 8? _____
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Use the pieces above to help you fill in the runaway math puzzle.



☐ 7

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4 

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1	
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David has saved 3 dimes and 7 nickels to buy a notebook. What fraction of a dollar has he saved?

sixteen be more than fifteen but sixteen is less then seventeen

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

$$\begin{array}{r} 132 \\ - 75 \\ \hline \end{array}$$

$$\begin{array}{r} 45 \\ + 58 \\ \hline \end{array}$$

$$\begin{array}{r} 105 \\ - 93 \\ \hline \end{array}$$

$$\begin{array}{r} 86 \\ - 11 \\ \hline \end{array}$$

$$\begin{array}{r} 38 \\ + 84 \\ \hline \end{array}$$

$$\begin{array}{r} 85 \\ + 59 \\ \hline \end{array}$$

$$\begin{array}{r} 60 \\ + 20 \\ \hline \end{array}$$

$$\begin{array}{r} 93 \\ - 58 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ + 42 \\ \hline \end{array}$$

$$\begin{array}{r} 156 \\ - 84 \\ \hline \end{array}$$

$$\begin{array}{r} 121 \\ - 61 \\ \hline \end{array}$$

$$\begin{array}{r} 96 \\ + 89 \\ \hline \end{array}$$

$$\begin{array}{r} 141 \\ - 60 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \\ + 80 \\ \hline \end{array}$$

$$\begin{array}{r} 158 \\ - 74 \\ \hline \end{array}$$

$$\begin{array}{r} 124 \\ - 70 \\ \hline \end{array}$$

$$\begin{array}{r} 84 \\ + 77 \\ \hline \end{array}$$

$$\begin{array}{r} 40 \\ + 15 \\ \hline \end{array}$$

$$\begin{array}{r} 42 \\ - 23 \\ \hline \end{array}$$

$$\begin{array}{r} 29 \\ + 18 \\ \hline \end{array}$$

$$\begin{array}{r} 128 \\ - 91 \\ \hline \end{array}$$

$$\begin{array}{r} 58 \\ + 61 \\ \hline \end{array}$$

$$\begin{array}{r} 37 \\ + 78 \\ \hline \end{array}$$

$$\begin{array}{r} 105 \\ - 34 \\ \hline \end{array}$$

$$\begin{array}{r} 172 \\ - 92 \\ \hline \end{array}$$

$$\begin{array}{r} 86 \\ + 76 \\ \hline \end{array}$$

$$\begin{array}{r} 50 \\ - 28 \\ \hline \end{array}$$

$$\begin{array}{r} 97 \\ + 56 \\ \hline \end{array}$$

$$\begin{array}{r} 50 \\ + 27 \\ \hline \end{array}$$

$$\begin{array}{r} 52 \\ - 33 \\ \hline \end{array}$$

$$\begin{array}{r} 31 \\ + 91 \\ \hline \end{array}$$

$$\begin{array}{r} 152 \\ - 65 \\ \hline \end{array}$$

$$\begin{array}{r} 89 \\ + 59 \\ \hline \end{array}$$

$$\begin{array}{r} 63 \\ + 79 \\ \hline \end{array}$$

$$\begin{array}{r} 100 \\ - 72 \\ \hline \end{array}$$

$$\begin{array}{r} 98 \\ - 25 \\ \hline \end{array}$$

$$\begin{array}{r} 93 \\ + 98 \\ \hline \end{array}$$

$$\begin{array}{r} 58 \\ - 39 \\ \hline \end{array}$$

$$\begin{array}{r} 78 \\ + 18 \\ \hline \end{array}$$

$$\begin{array}{r} 35 \\ + 88 \\ \hline \end{array}$$

$$\begin{array}{r} 76 \\ - 52 \\ \hline \end{array}$$

$$\begin{array}{r} 75 \\ - 36 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 7 \\ \hline \square \end{array}$$

$$\begin{array}{r} + 9 \\ \hline \square \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 22 \\ - \square \\ \hline \end{array}$$

$$\begin{array}{r} 19 \\ + \square \\ \hline \end{array}$$

$$\begin{array}{r} 26 \\ + \square \\ \hline \end{array}$$

$$\begin{array}{r} 32 \\ - \square \\ \hline \end{array}$$

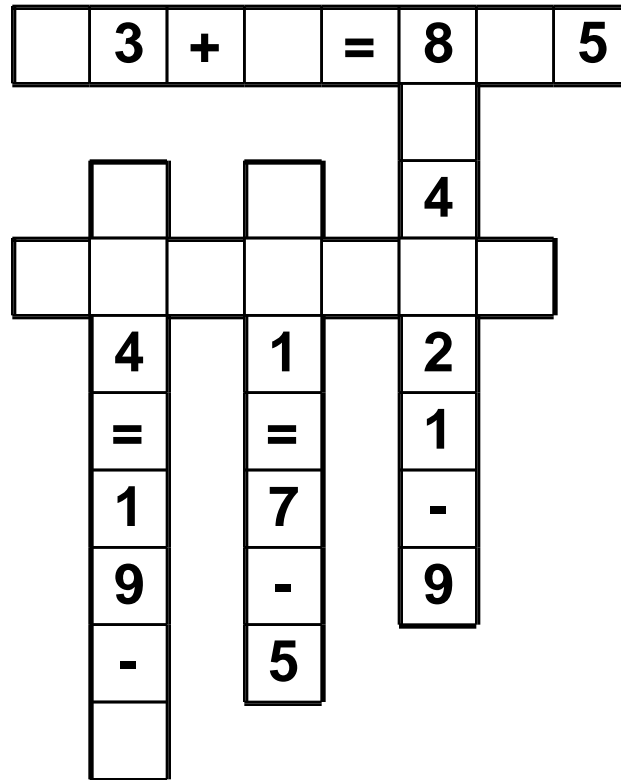
$$\begin{array}{r} 29 \\ + 6 \\ \hline \square \\ - 9 \\ \hline \end{array}$$

$$\begin{array}{r} 26 \\ + \square \\ \hline 33 \\ + \square \\ \hline 38 \end{array}$$

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

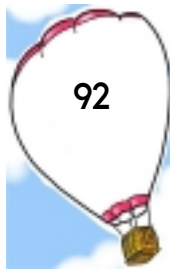
1 • 0 • + • + • 9 • 1 • 0 • + • 0 • + • 6 • = • 6 • 6

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



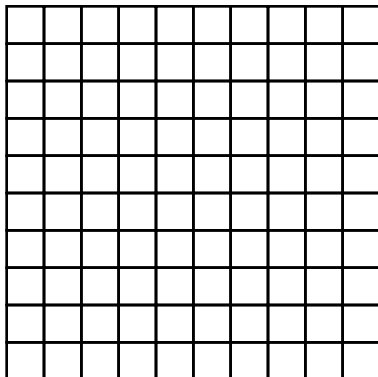
Write the numeral for two hundred ninety-one.

\_\_\_\_\_



Write this number using words.

Color  $\frac{5}{10}$ .



Would you use a ruler or a yardstick to measure the length of the height of your teacher?

\_\_\_\_\_

Circle the even numbers.

21	73	27	107
68	61	32	130
59	82	44	51

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

Complete each analogy with the best word.		
United States	promise	grandfather
consumer	England	animals
polluted	singer	ozone
history	travel	black
gray	magician	anger
kind		
World War I : Europe ::		
Civil War : _____		
clean : pure ::		
dirty : _____		
vacation : holiday ::		
journey : _____		
mythology : gods ::		
fables : _____		
hate : mean ::		
love : _____		
dad's brother : uncle ::		
dad's dad : _____		
Marilyn Monroe : actress ::		
Harry Houdini : _____		
North : blue ::		
South : _____		
country : nation ::		
oath : _____		
seller : producer ::		
buyer : _____		

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

ANIMALS • FUR • MAGICIAN  
RED • FIND • POLLUTED  
GRAY • CHEERY • STICK  
BEET • NOUN • NOISY  
PLAYGROUND • WEAPONS  
BARK • CHEER • WRONG  
ROCK • WATCH • SHELL  
RACQUET • SEE • PROMISE  
EPIC • COVERING • TOOLS  
NUT • RETRACT • DAY  
OCEAN • UNEXPLAINED  
DESERT • DIRT • DUMP  
TRAVEL • CONSTITUTION  
NONE • PAINTING • HOUR  
KIND • CONSUMER • PEN  
VIRGINIA • MAMMAL • SAME

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



$2 \times 8 =$

$4 \times 9 =$

$7 \times 6 =$

$5 \times 2 =$

$7 \times 8 =$

$5 \times 4 =$

$8 \times 2 =$

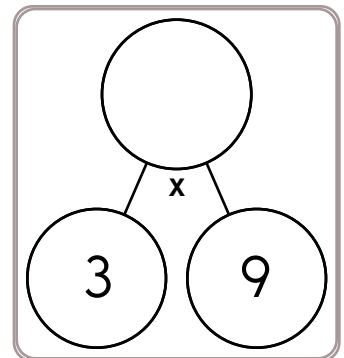
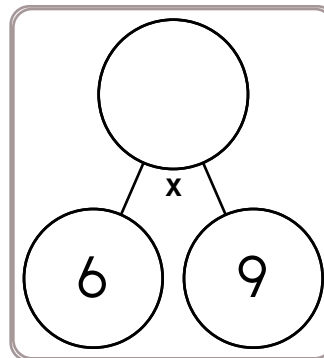
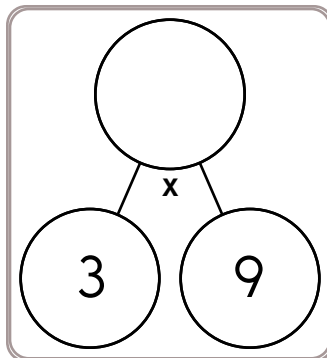
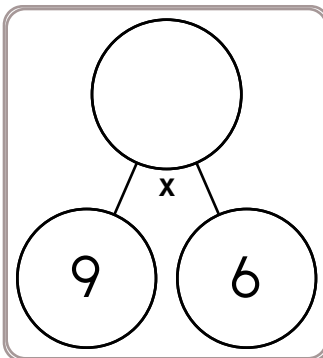
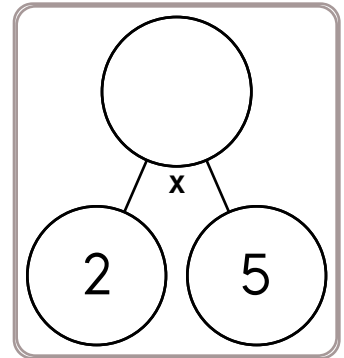
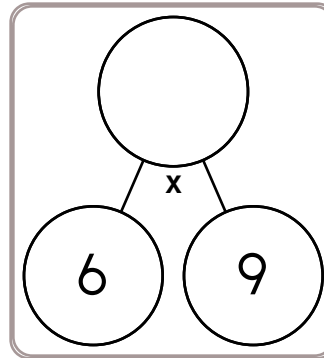
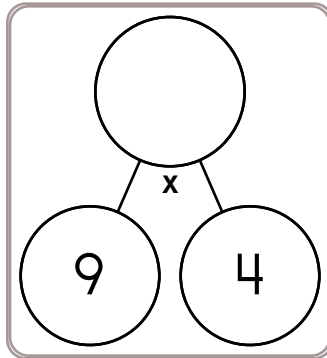
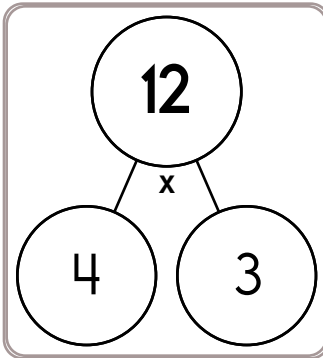
$8 \times 9 =$

$9 \times 7 =$

$7 \times 3 =$

$2 \times 9 =$

$6 \times 4 =$



$\_\_ \times 6 = 12$

$9 \times \_\_ = 36$

$9 \times \_\_ = 63$

$\_\_ \times 4 = 16$

$\_\_ \times 8 = 32$

$4 \times \_\_ = 8$

$\_\_ \times 7 = 56$

$9 \times \_\_ = 45$

$\_\_ \times 6 = 18$

$3 \times \_\_ = 12$

$\_\_ \times 3 = 18$

$8 \times \_\_ = 16$

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

$\begin{array}{c} \text{72} \\ \diagup \quad \diagdown \\ \text{x} \\ \text{9} \quad \text{8} \end{array}$	$\begin{array}{c} \text{ } \\ \diagup \quad \diagdown \\ \text{x} \\ \text{9} \quad \text{5} \end{array}$	$\begin{array}{c} \text{ } \\ \diagup \quad \diagdown \\ \text{x} \\ \text{10} \quad \text{7} \end{array}$	$\begin{array}{c} \text{ } \\ \diagup \quad \diagdown \\ \text{x} \\ \text{7} \quad \text{11} \end{array}$	$\begin{array}{c} \text{ } \\ \diagup \quad \diagdown \\ \text{x} \\ \text{9} \quad \text{9} \end{array}$
$\begin{array}{c} \text{ } \\ \diagup \quad \diagdown \\ \text{x} \\ \text{6} \quad \text{10} \end{array}$	$\begin{array}{c} \text{48} \\ \diagup \quad \diagdown \\ \text{x} \\ \text{ } \quad \text{8} \end{array}$	$\begin{array}{c} \text{77} \\ \diagup \quad \diagdown \\ \text{x} \\ \text{7} \quad \text{ } \end{array}$	$\begin{array}{c} \text{72} \\ \diagup \quad \diagdown \\ \text{x} \\ \text{ } \quad \text{9} \end{array}$	$\begin{array}{c} \text{ } \\ \diagup \quad \diagdown \\ \text{x} \\ \text{11} \quad \text{5} \end{array}$
$\begin{array}{c} \text{ } \\ \diagup \quad \diagdown \\ \text{x} \\ \text{7} \quad \text{9} \end{array}$	$\begin{array}{c} \text{96} \\ \diagup \quad \diagdown \\ \text{x} \\ \text{8} \quad \text{ } \end{array}$	$\begin{array}{c} \text{48} \\ \diagup \quad \diagdown \\ \text{x} \\ \text{8} \quad \text{ } \end{array}$	$\begin{array}{c} \text{ } \\ \diagup \quad \diagdown \\ \text{x} \\ \text{7} \quad \text{11} \end{array}$	$\begin{array}{c} \text{ } \\ \diagup \quad \diagdown \\ \text{x} \\ \text{12} \quad \text{5} \end{array}$
$\begin{array}{c} \text{77} \\ \diagup \quad \diagdown \\ \text{x} \\ \text{ } \quad \text{11} \end{array}$	$\begin{array}{c} \text{ } \\ \diagup \quad \diagdown \\ \text{x} \\ \text{12} \quad \text{5} \end{array}$	$\begin{array}{c} \text{48} \\ \diagup \quad \diagdown \\ \text{x} \\ \text{8} \quad \text{ } \end{array}$	$\begin{array}{c} \text{96} \\ \diagup \quad \diagdown \\ \text{x} \\ \text{ } \quad \text{8} \end{array}$	$\begin{array}{c} \text{60} \\ \diagup \quad \diagdown \\ \text{x} \\ \text{ } \quad \text{6} \end{array}$

Round 66 to the nearest ten.

Write the number that is one hundred less than 6,107.

K, F, J, E, I, D,  
\_\_\_\_\_, C, G, B

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

1 is written with an I.

5 is written with a V.

10 is written with an X.

50 is written with an L.

100 is written with a C.

You cannot have 4 of the same letter consecutively.

4 is written as IV.

9 is written as IX.

40 is written as XL.

So you cannot write 44 like this: XXXXIIII.

But you would write 44 like this: XLIV.

Write the number as a Roman numeral and then find the Roman numeral.

## Roman Numerals

I = \_\_\_\_\_

IV = \_\_\_\_\_

VI = \_\_\_\_\_

IX = \_\_\_\_\_

XI = \_\_\_\_\_

XIV = \_\_\_\_\_

XVII = \_\_\_\_\_

XIX = \_\_\_\_\_

XXXIII = \_\_\_\_\_

1 \_\_\_\_\_  
IIXLVVXXIV  
VIIXIXXLVII

5 V \_\_\_\_\_  
IVXVXIXXXX  
VIIIXVIIIVI

2 \_\_\_\_\_  
XXXIVIIIXVI  
IIIIIXLIVXIX

6 \_\_\_\_\_  
VIVIIIVXXVI  
XIVIVIIIIIX

9 \_\_\_\_\_  
IXVIVIIIVI  
XXXVIIIXIVI

8 \_\_\_\_\_  
XVIIIIXXIIIX  
XXIIIVIIIIIV

12 \_\_\_\_\_  
VXIIIVXIVI  
XIIIVIIIVIII

7 \_\_\_\_\_  
XXXVIIIVIIII  
VIVIIIVVXV

34 \_\_\_\_\_  
XXXIVXVXVI  
VXXXIVIIIX

18 \_\_\_\_\_  
XXVIIIIXLIII  
IVXVIIIVIV

39 XXXIX \_\_\_\_\_  
IIIVXXXIXIX  
XXXIXXXVIII

36 \_\_\_\_\_  
XXXVIXXIIII  
XXXVIXXIIV

41 \_\_\_\_\_  
VIIIXLIXLIII  
LXLVIIIXLIX

11 \_\_\_\_\_  
IIXIXXXIIIV  
XXIIXXIVVI

25 \_\_\_\_\_  
XXVXVIXIIX  
VXLIVXXVXI

56 \_\_\_\_\_  
XVILVIXIVV  
VIIILVIXIIIX

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 3 in your head

add 3

multiply 10

Write the tens digit.

\_\_\_\_\_  
A

imagine 2 in your head

multiply 8

add 2

add 7

Add the tens digit to the ones digit.

Write the sum.

\_\_\_\_\_  
B

imagine 9 in your head

subtract 9

add 8

add 7

double it

Write the ones digit.

\_\_\_\_\_  
C

imagine 8 in your head

multiply 5

subtract 7

double it

Write the tens 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?

\_\_\_\_\_ t \_ e \_

2 after 18 \_\_\_\_\_

4 before 11 \_\_\_\_\_

8 after 16 \_\_\_\_\_

1 after 19 \_\_\_\_\_

1 before 13 \_\_\_\_\_

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

9 after 14 \_\_\_\_\_

2 before 18 \_\_\_\_\_

4 after 17 \_\_\_\_\_

5 after 13 \_\_\_\_\_

6 before 15 \_\_\_\_\_

7 after 15 \_\_\_\_\_

	7	8
X		2
<hr/>		

	6	2
X		7
<hr/>		

	3	7
X		3

	1	4
X		8

	9	8
X		8
<hr/>		

	2	7	2
X			2

	5	3	6
X			8

	5	0	1
X			5

	7	9	7
X			4

A 4x4 grid representing a 4x4 Latin square. The grid is filled with red and light red squares. The top row has a red square in the first column and a light red square in the second column. The second row has a light red square in the first column, a red square in the second column, and a light red square in the third column. The third row has a light red square in the first column, a red square in the second column, and a light red square in the third column. The fourth row has a light red square in the first column, a red square in the second column, and a light red square in the third column. The grid is labeled with 'X' in the second row, second column, '7' in the second row, third column, '5' in the second row, fourth column, '9' in the third row, second column, and '1' in the third row, third column.

		8	4
		6	1
	3		

		1	8
X		6	9

A 3D bar chart illustrating the frequency of outcomes for two events, X and Y. The horizontal axis represents outcomes 1, 2, 3, and 4. The vertical axis represents frequency. For event X, the frequencies are 1 for outcome 1, 2 for outcome 2, 3 for outcome 3, and 4 for outcome 4. For event Y, the frequencies are 2 for outcome 3 and 3 for outcome 4. The bars for X are colored red, and the bars for Y are colored blue.



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

Cross off the number that does NOT belong.

19, 38, 57, 68, 76, 95, 114, 133, 152, 171, 190

Why does \_\_\_\_\_ not belong in the pattern?

Cross off the number that does NOT belong.

$\frac{4}{8}$  ,  $\frac{6}{8}$  , 1,  $1\frac{2}{8}$  ,  $1\frac{4}{8}$  ,  $1\frac{6}{8}$  , 2,  $2\frac{2}{8}$  ,  $2\frac{4}{8}$  ,  
 $2\frac{6}{8}$  , 3,  $3\frac{2}{8}$  ,  $3\frac{3}{8}$  ,  $3\frac{4}{8}$  ,  $3\frac{6}{8}$  , 4,  $4\frac{2}{8}$

Why does \_\_\_\_\_ not belong in the pattern?

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

Each box needs a number from 1 to 9. You may re-use numbers.

One set of sums has been done for you.

sum of 4 ↓		sum of 10 ↓			sum of 10 ↓	sum of 8 ↓	sum of 11 ↓
	sum of 8 ↓		sum of 7 ↓	sum of 7 →			
sum of 8 →							
					sum of 6 ↓	sum of 7 ↓	
				sum of 4 →			1
sum of 5 →							4
sum of 10 →				sum of 9 →			2

sum of 5 ↓			sum of 9 ↓	sum of 6 →			
		sum of 5 ↓			sum of 7 ↓	sum of 7 ↓	
	sum of 9 ↓			sum of 9 →			3
					sum of 6 ↓		2
				sum of 10 ↓			2
sum of 9 ↓		sum of 7 →					
			sum of 8 →				
	sum of 10 →						

### 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.

Make a Word

Sum

1	2	4	6	8	12	18
B	A	L	L	O	O	N

33

1	2	4	6	10
		E		

1	2	6	10
T	E		

Make a Word

Sum

1	2	4	6	12	18
I	N				

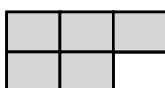
1	2	4	6	10
M	I			

1	2	4	8	14	20
E	N				

If you take 37 away from me, the difference is 42. What number am I?

\_\_\_\_\_

Write a fraction to represent what is shaded.



\_\_\_\_\_

word root **cogn** can mean **know**

**cognition, cognitive, recognition**



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