

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

This puzzle has a large number in the middle, which is the sum of the four numbers that surround it.

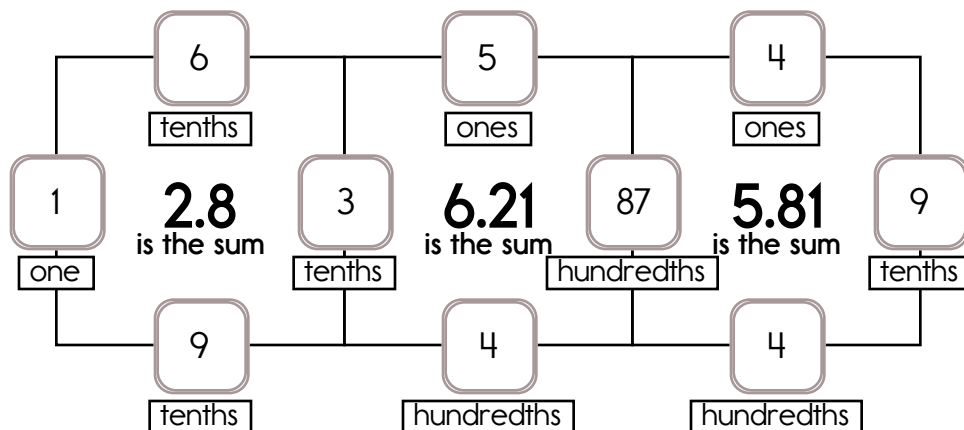
Example:

$$1 + 0.3 + 0.6 + 0.9 = 2.8$$

Example:

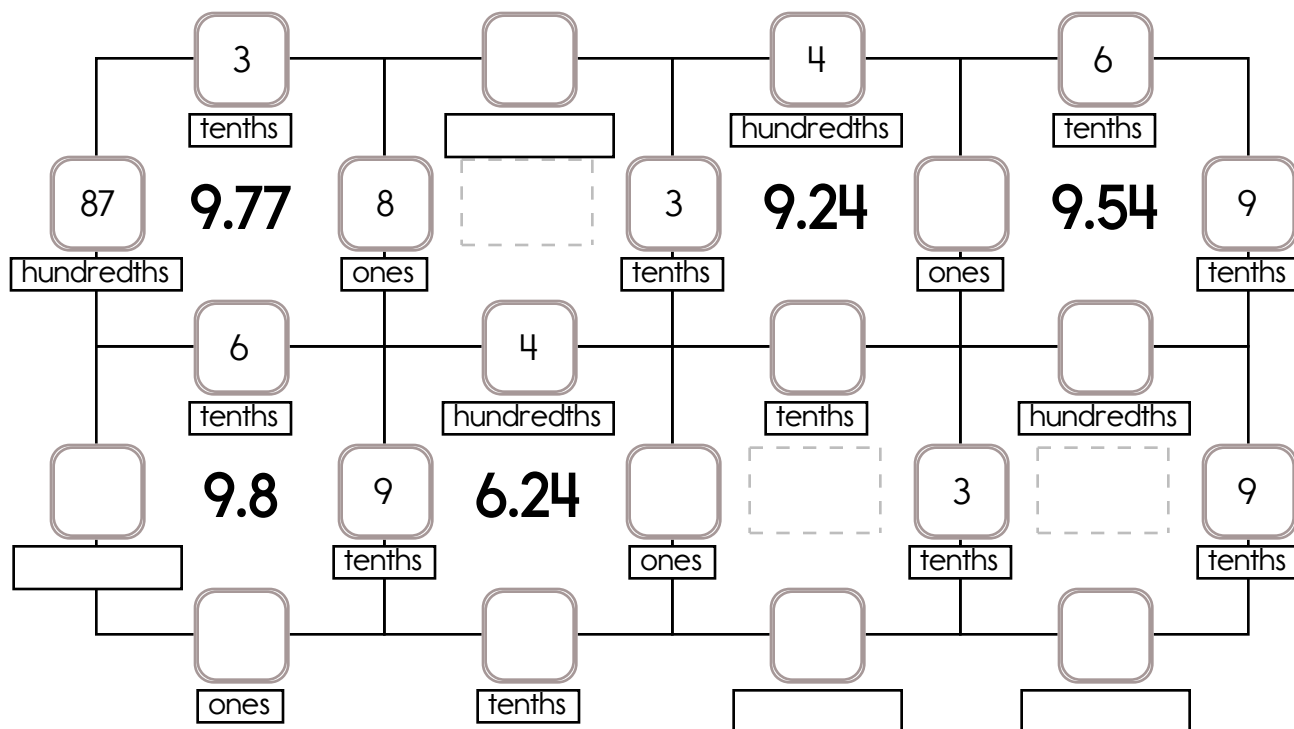
$$0.87 + 0.9 + 4 + 0.04 = 5.81$$

Sample:



Fill in the missing numbers. How? The sum of the four surrounding numbers is in the center of each square. Exactly one of the four numbers has to be one of these numbers: 5 ones, 7 ones, 1 one, 4 ones, or 8 ones.

The other three numbers have to all be DIFFERENT and must be from these: 87 hundredths, 6 tenths, 4 hundredths, 3 tenths, or 9 tenths.



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

Thirty-five more than four-sixths of a number equals 115. What is the number?

120,000 and 3,000,000 added to a number is 3,811,119. What is the number?

Three-fourths of a number equals 1,044. What is the number?

The sum of twenty and forty-five is forty-eight more than a number. What is the number?

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Find the missing numbers. These both have the same rule. What is the rule?

If

$$1, 1 = 2$$

$$2, 2 = 4$$

$$3, 3 = 6$$

$$4, 4 = 8$$

Then

$$5, 5 = ?$$

If

$$3, 3 = 6$$

$$4, 4 = 8$$

$$5, 5 = 10$$

$$6, 6 = 12$$

Then

$$7, 7 = ?$$

Complete each pattern. Write what the rule is for each pattern.

$$\frac{1}{3125}, \frac{1}{625}, \frac{1}{125}, \frac{1}{25}, \frac{1}{5},$$

$$(1), (5),$$

$$_____, _____$$

$$\frac{1}{64}, \frac{1}{16}, \frac{1}{4}, (1),$$


$$(4), (16), (64),$$

$$(256), _____$$

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

<p>Amy wrote a report about Sally Ride for her science class. It took her an hour and 31 minutes to write the report. If she began writing at 11:49 a.m., what time did she finish the report?</p>	<p>Holly has 2 liters of milk to pour into glasses. If each glass holds 250 milliliters of milk, how many glasses can she fill?</p>	<p>Paul started chopping down 500 trees at 8:45 a.m. one morning. He finished the last tree at 10:26 a.m. How much time did he spend chopping?</p>
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<p>How many digits are in ten times ten? _____</p>	$\begin{array}{r} 26 \\ + 47 \\ \hline \end{array}$	<p>Circle the greatest number:</p> <p>4,308,470 816,975,420 95,318,623 961,572</p>
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<p>How many inches are in 4 feet? _____ inches</p> <p>In each group, circle the word that is spelled correctly.</p> <p>eeger, eager picture, pickture treatment, treetment</p>	<p>How far do you think it is from your desk to your teacher's desk? Write an estimate of the distance you think it could be.</p>	
--	---	---

<p>Circle the addition property for <math>78 + 103 = 103 + 78</math>.</p> <p>associative property commutative property</p>	<p>Circle the digit in the hundredths place.</p> <p>11.677</p>	$\begin{array}{r} 463 \\ + 307 \\ \hline \end{array}$
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Name: \_\_\_\_\_

### Sudoku Sums of 8

Each row, column, and box must have the numbers 1 through 6.  
Hint: Look for sudoku sums. The sum of the two boxes inside of the dashed lines is 8.

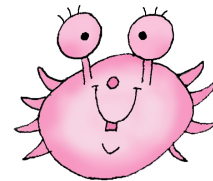
Here is an example of a sudoku sum of 8:

3	5
---	---

		3			1
	4				
		4			
	5	2		3	
			2	6	
4					

$4 \times 5 =$

$$\begin{array}{r} 856 \\ - 134 \\ \hline \end{array}$$



Mary wants to call Jenna.  
Jenna is on vacation in Asia.  
It is a time difference of  
twelve hours. Jenna's time is  
always later than Mary's time.  
If it is 9:54 A.M. where Mary  
lives, then what time is it  
where Jenna is?

\_\_\_\_\_

$$\begin{array}{r} 65 \\ - 46 \\ \hline \end{array}$$

$6 \text{ kg} = \text{_____ g}$

$1 \text{ lb} = 16 \text{ oz}$

$15 \text{ lb} = \text{_____ oz}$

$27 \div 3 =$

Finish the sentence by creating a simile.

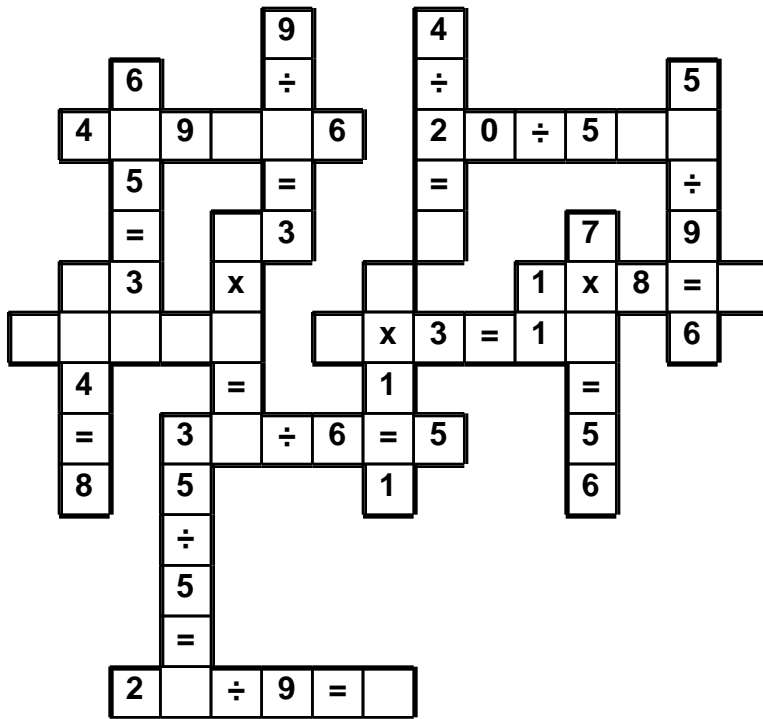
Dad says my little sister is as silly as \_\_\_\_\_.

\_\_\_\_\_

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

$x \cdot = \cdot 3 \cdot = \cdot 4 \cdot 9 \cdot 2 \cdot 2 \cdot 1 \cdot 8 \cdot 7 \cdot x \cdot 0 \cdot = \cdot 0 \cdot 6$   
 $8 \cdot 0 \cdot 7 \cdot 3$

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



Can 506 be evenly divided by 11? Circle:  
 506 is evenly divisible by 11  
 506 is NOT evenly divisible by 11

Lucas invented a robotic bug. The bug can crawl six centimeters in seventeen seconds. How long would it take the bug to crawl forty-three centimeters?

In the number 762,022, the digit 7 is in what place?

\_\_\_\_\_

What time is 14 hours after 1:00 a.m.?

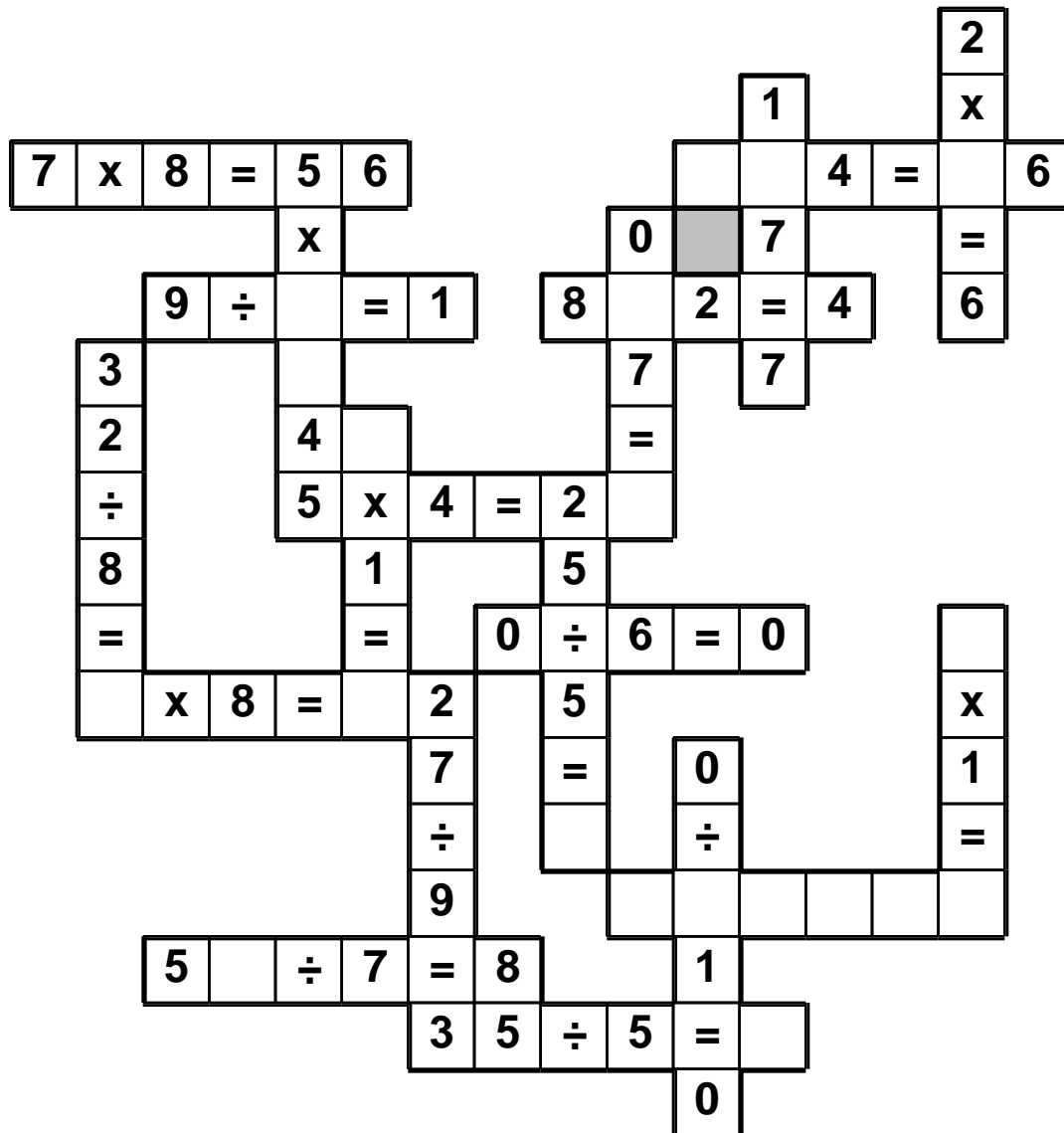
\_\_\_\_\_



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

9 • x • 3 • 9 • ÷ • = • 3 • 0 • 9 • 4 • 3 • 5 • 8 • 1 • ÷ • 9  
= • 9 • 6 • 7

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



Which has the largest answer?

219 ÷ 29      220 ÷ 29      226 ÷ 29

12 x 7 =

8 x 9 =



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

Ethan, Jacob, Brittany, Jose, and Robert each have a car. This year, they each drove a different distance. The distances were: 2,259, 2,119, 2,425, 2,573, and 3,061 miles. The speedometer on each of the cars keeps track of the total number of miles the cars have been driven. The current speedometer numbers on the cars are 55,738, 56,863, 57,949, 57,336, and 56,219 miles.

Figure out how many miles each person drove their car for this year and the total number of miles that has been driven (the current speedometer reading).

1. Robert's current speedometer reading is neither fifty-six thousand, two hundred nineteen nor fifty-seven thousand, three hundred thirty-six.
2. Robert drove one hundred more miles than Jacob this year, rounded to the nearest hundreds.
3. The combined total miles that Jose and Brittany have put on their cars, rounded to the nearest hundreds, is one hundred thirteen thousand, five hundred.
4. The combined total miles that Jacob and Ethan have put on their cars, rounded to the nearest hundreds, is one hundred fourteen thousand, eight hundred.
5. Brittany drove more than 2,740 miles this year.
6. The person that drove two thousand, five hundred seventy-three miles this year does not have a speedometer reading of fifty-six thousand, eight hundred sixty-three.
7. Jose drove four hundred fifty more miles than Ethan this year, rounded to the nearest tens.

Ethan drove \_\_\_\_\_ miles this year. His or her car's speedometer reads \_\_\_\_\_ miles.

Jacob drove \_\_\_\_\_ miles this year. His or her car's speedometer reads \_\_\_\_\_ miles.

Brittany drove \_\_\_\_\_ miles this year. His or her car's speedometer reads \_\_\_\_\_ miles.

Jose drove \_\_\_\_\_ miles this year. His or her car's speedometer reads \_\_\_\_\_ miles.

Robert drove \_\_\_\_\_ miles this year. His or her car's speedometer reads \_\_\_\_\_ miles.

Write a letter that has a line of symmetry.

\_\_\_\_\_

Circle the smallest number:

798,512

406,194,507,823

96,782,351

68,524,310,796



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 7

multiply 12

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

\_\_\_\_\_  
A

imagine 2 in your head

add 6

subtract 2

add 7

double it

subtract 8

Write the tens digit.

\_\_\_\_\_  
B

imagine 6 in your head

add 6

multiply 3

add 7

Write the ones digit.

\_\_\_\_\_  
C

imagine 8 in your head

subtract 4

multiply 4

double it

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?

\_\_\_\_\_n\_\_\_\_\_

9 before 14 \_\_\_\_\_

8 after 15 \_\_\_\_\_

5 before 15 \_\_\_\_\_

1 before 19 \_\_\_\_\_

4 after 11 \_\_\_\_\_

6 before 16 \_\_\_\_\_

7 before 11 \_\_\_\_\_

7 after 18 \_\_\_\_\_

8 before 13 \_\_\_\_\_

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$\begin{array}{c} \textcircled{370} \\ \diagup \quad \diagdown \\ \text{x} \\ \textcircled{37} \quad \textcircled{\phantom{00}} \end{array}$	$\begin{array}{c} \textcircled{364} \\ \diagup \quad \diagdown \\ \text{x} \\ \textcircled{\phantom{00}} \quad \textcircled{26} \end{array}$	$\begin{array}{c} \textcircled{451} \\ \diagup \quad \diagdown \\ \text{x} \\ \textcircled{11} \quad \textcircled{\phantom{00}} \end{array}$	$\begin{array}{c} \textcircled{351} \\ \diagup \quad \diagdown \\ \text{x} \\ \textcircled{13} \quad \textcircled{\phantom{00}} \end{array}$	$\begin{array}{c} \textcircled{252} \\ \diagup \quad \diagdown \\ \text{x} \\ \textcircled{\phantom{00}} \quad \textcircled{14} \end{array}$
$\begin{array}{c} \textcircled{340} \\ \diagup \quad \diagdown \\ \text{x} \\ \textcircled{\phantom{00}} \quad \textcircled{17} \end{array}$	$\begin{array}{c} \textcircled{\phantom{000}} \\ \diagup \quad \diagdown \\ \text{x} \\ \textcircled{25} \quad \textcircled{20} \end{array}$	$\begin{array}{c} \textcircled{150} \\ \diagup \quad \diagdown \\ \text{x} \\ \textcircled{10} \quad \textcircled{\phantom{00}} \end{array}$	$\begin{array}{c} \textcircled{\phantom{000}} \\ \diagup \quad \diagdown \\ \text{x} \\ \textcircled{10} \quad \textcircled{17} \end{array}$	$\begin{array}{c} \textcircled{476} \\ \diagup \quad \diagdown \\ \text{x} \\ \textcircled{14} \quad \textcircled{\phantom{00}} \end{array}$
$\begin{array}{c} \textcircled{323} \\ \diagup \quad \diagdown \\ \text{x} \\ \textcircled{\phantom{00}} \quad \textcircled{17} \end{array}$	$\begin{array}{c} \textcircled{455} \\ \diagup \quad \diagdown \\ \text{x} \\ \textcircled{35} \quad \textcircled{\phantom{00}} \end{array}$	$\begin{array}{c} \textcircled{228} \\ \diagup \quad \diagdown \\ \text{x} \\ \textcircled{12} \quad \textcircled{\phantom{00}} \end{array}$	$\begin{array}{c} \textcircled{372} \\ \diagup \quad \diagdown \\ \text{x} \\ \textcircled{31} \quad \textcircled{\phantom{00}} \end{array}$	$\begin{array}{c} \textcircled{380} \\ \diagup \quad \diagdown \\ \text{x} \\ \textcircled{\phantom{00}} \quad \textcircled{20} \end{array}$

Change to a fraction.  
9%

Write as a percent.

$$\frac{13}{15}$$

Find 17% of 19.

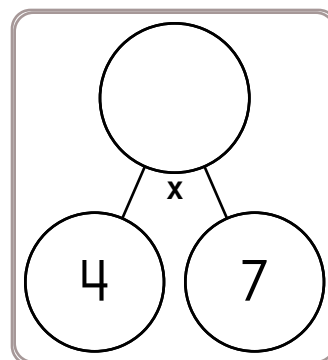
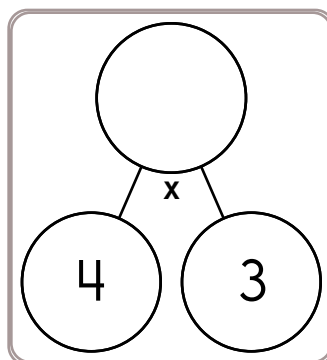
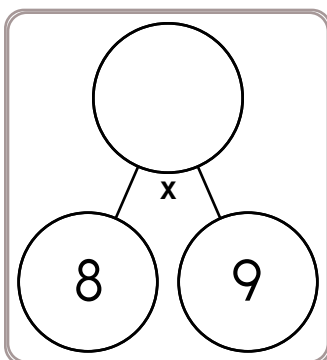
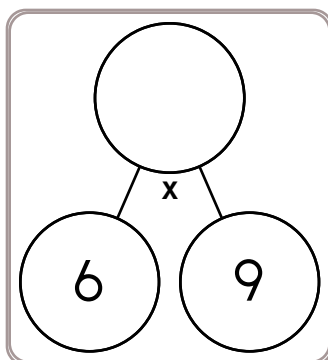
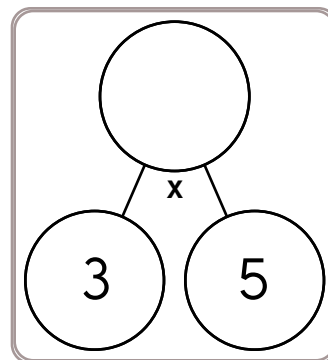
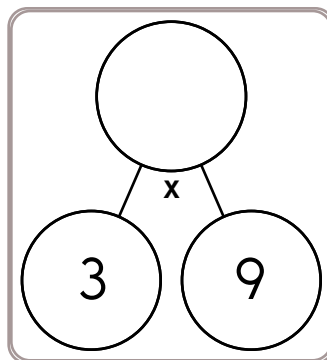
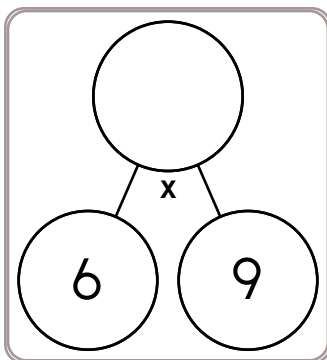
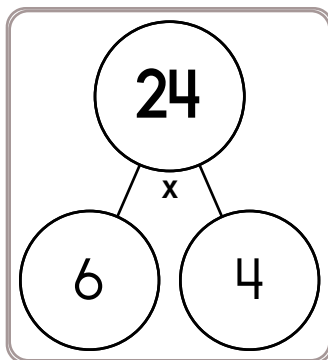
The radius of a circle is 292 cm. What is the diameter of this circle?

Estimate quickly the difference.  
6,280 - 1,340

What 4 coins add up to 8 cents?



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



$29 \times 3 =$

$92 \times 6 =$

$28 \times 5 =$

$62 \times 5 =$

$55 \times 2 =$

$12 \times 4 =$

$79 \times 6 =$

$71 \times 5 =$

$77 \times 6 =$

$54 \times 2 =$

$85 \times 4 =$

$90 \times 3 =$



$7 \times \underline{\quad} = 42$

$\underline{\quad} \times 5 = 20$

$\underline{\quad} \times 8 = 64$

$5 \times \underline{\quad} = 25$

$\underline{\quad} \times 9 = 18$

$6 \times \underline{\quad} = 24$

$\underline{\quad} \times 5 = 35$

$4 \times \underline{\quad} = 16$

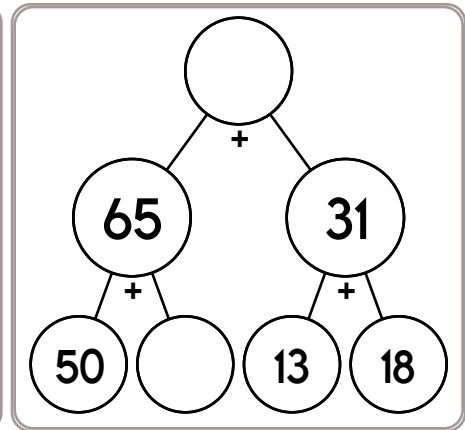
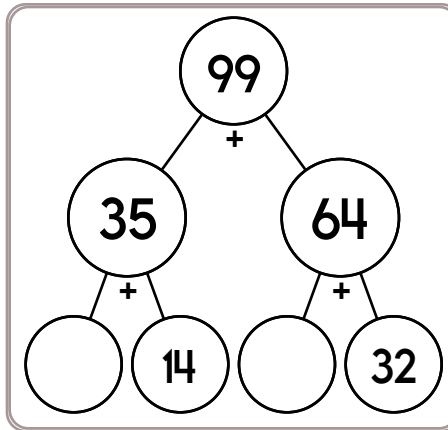
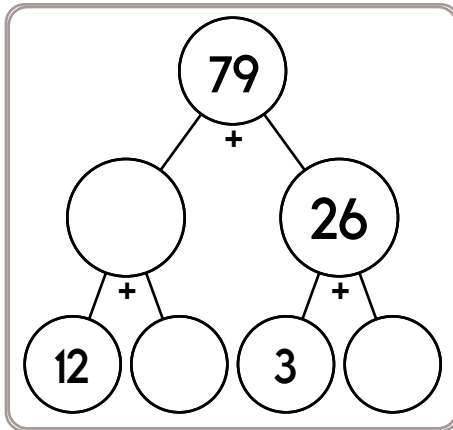
$\underline{\quad} \times 3 = 12$

$\underline{\quad} \times 3 = 21$

$6 \times \underline{\quad} = 12$

$9 \times \underline{\quad} = 18$

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$$85 - \frac{1}{2} =$$

$$14 + \frac{1}{5} + \frac{3}{4} =$$

$$5 - \frac{6}{11} + \frac{4}{7} =$$

It was 6 degrees below zero in the morning. By afternoon the temperature rose 23 degrees. How warm was it?

How many minutes is it from 6:00 a.m. to 11:45 a.m.?

Write the missing family fact.

$$85 \div 17 = 5$$

$$17 \times 5 = 85$$

$$85 \div 5 = 17$$

2, 16, 18, 34, 52, 86,  
138, 224, \_\_\_\_\_, 586,  
948, 1534, 2482, 4016

Circle the three numbers whose product equals 1,200.

5      12      6

10      10      10

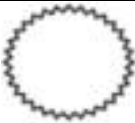







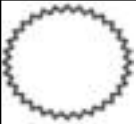


The perimeter of a rectangle is 20 cm. The longer side is 8 cm. How long is the shorter side?

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

Each row, column, and box must have the numbers 1 through 6. The first box is done.

6	4	1		2	
5	2	3			
		5	1		
3			5		2
	3		6		
					1

Each row, column, and box must have 6 different pictures.

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

I am a whole number. When rounded to the nearest ten-thousand, the answer is 10000. The sum of my digits is 20. If you add 15000 to this number and then round the new number to the nearest ten-thousand, the answer becomes 20000. What number am I?

Emily lives in New York where it is currently Sat. at 12:15 p.m. She made a phone call to Hannah who lives in Lahore. It is 10:15 p.m. and Sat. in Lahore. What is the difference in time?

$$2 + 8 \times 1$$

$$12 \times 3 =$$

Anne has 28 books. She organized them equally into 4 boxes. How many books in each box?

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

Sketch an acute angle  
named  $\angle GHI$ .

Sketch an obtuse angle  
named  $\angle DEF$ .

Sketch a right angle named  
 $\angle FGH$ .

What is the sum of 16.4 and  
4.2?

$$0.81 + 7.7 + 0.4 =$$

Find the difference  
between 20.9 and 4.5.

$$\begin{array}{r} 166 \\ \times 18 \\ \hline \end{array}$$

$$\begin{array}{r} 853 \\ \times 64 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \\ \times 4 \\ \hline \end{array}$$

$$4n = 12$$

$$\frac{N}{8} = 3$$

$$\frac{N}{10} = 4$$

What is the greatest  
common factor of 12, 24,  
and 40?

$$n - 5 = 10$$

What is the greatest  
common factor of 4 and  
10?

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$$20 \overline{) 1320}$$

$$77 \overline{) 770}$$

$$48 \overline{) 864}$$

$$60 \overline{) 1920}$$

$$12 \overline{) 1296}$$

$$20 \overline{) 240}$$

$$30 \overline{) 1440}$$

$$35 \overline{) 1890}$$

$$10 \overline{) 420}$$

$$21 \overline{) 252}$$

$$12 \overline{) 108}$$

$$20 \overline{) 500}$$

Estimate quickly the difference.  
 $4,910 - 2,400$

What is 50% of 1,550?

Yummy Donuts gave two dozen chocolate donuts and four dozen jelly donuts to the school. How many donuts did they give?

How much money is 1 quarter, 1 dime, 5 nickels, and 1 penny?

How many centimeters in 910.4 meters?

$$6 \div \frac{1}{7}$$



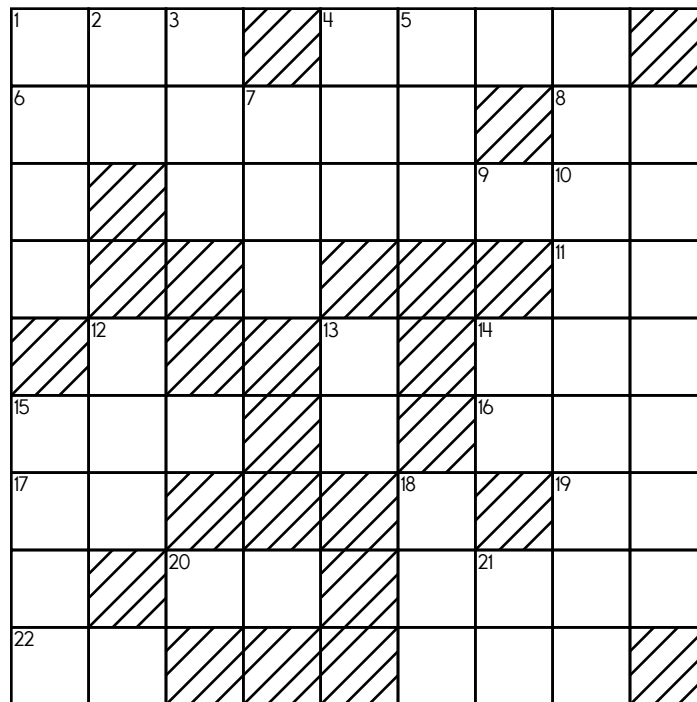
Name: \_\_\_\_\_

**ACROSS**

1. Nine times 21-Down
5. Three more than 5-Down
8. Five times 19-Across
10. One-fourth of 2-Down
11. Two times 19-Across
14. Five times 13-Down
15. Five less than 12-Down
16. Nine more than 21-Across
19. One-fifth of 20-Across
20. Eight less than 5-Across
21. Two less than 19-Down
22. Five less than 5-Down

**DOWN**

2. Two times 11-Across
3. 5-Down plus 19-Across
4. Three times 13-Down
5. **Nickels in five dollars**
6. 5-Across plus 20-Across
7. Six more than 20-Across
9. One-sixth of 14-Down
12. 20-Across plus 21-Across
13. 21-Down plus 19-Across
14. Seven less than 19-Across
17. Seven more than 16-Across
18. 7-Down plus 4-Down
19. 5-Down plus 22-Across
21. One-fifth of 22-Across



$(6 + 4) + 4 =$



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