

Name: _____

There are 2 prime numbers greater than 24 but less than 34. Name them.

Use >, <, or = to complete.

$$30\% \text{ --- } \frac{1}{12}$$

$$\frac{3}{6} \text{ --- } 27\%$$

$$33\% \text{ --- } \frac{2}{6}$$

52, 62, 72, 82, 92, 102,

_____, 122, 132, 142

If $z = -6$ and $a = 12$ then
what is the value of m ?
 $8z - 14a - 4a = m$

What is the prime
factorization of 198?

Rewrite as an algebraic
expression or equation.

Thirteen subtracted from a
number is thirty-four.

What is the greatest
common factor of the
numbers 135 and 90?

Name: _____

There is 1 prime number greater than 48 but less than 58. What is this number?

Change to a decimal.
97%

Change to a percent.

$$\frac{76}{100}$$

Change to a percent.

$$\frac{72}{100}$$

$$0.1 \cdot 3 =$$

$$3 + 12 \times 5 + 3$$

If $a = 8$ and $b = 9$,
then
 $3a + b =$

$$1 \text{ cm} = 10 \text{ mm}$$

$$19 \text{ cm} = \text{_____} \text{ mm}$$

$$(3 + 9) + 5 =$$

$$8 \times 3 = \text{_____}$$

Name: _____

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

Make \$36.43 any way you want!

Make \$21.45 any way you want!

Make \$23.48 any way you want!

Make \$43.54 any way you want!

Circle the digit in the hundredths place.

26.749

12 kg = _____ g

Name: _____

A rectangular sign advertising the Life Evaluation Conference was put up near the conference hotel. It had a length of 25 feet and a perimeter of 106 feet. What was the sign's width?

Ms. Brown is planning a trip to the Museum of History on the date of Thailand's New Year. A total of 135 students are going on the trip. Each bus will hold 36 students. How many buses will be needed?

Sarah is making 2 teddy bears for her little sister. She needs $\frac{3}{4}$ yards of pink fabric and $\frac{1}{3}$ yards of yellow fabric to make each bear. How much fabric does she need in all?

Mr. King bought 6 cheese pizzas for the party. The girls ate $1\frac{1}{2}$ pizzas. The boys ate $2\frac{3}{8}$ pizzas. How much pizza was left over?

Nathan had a collection of 126 miniature cars. They were all mixed together in a box. He sorted them into egg cartons and labeled each carton. He put one dozen cars in each carton except for the last one. How many cars did he put in the last carton?

There is no ethnic majority in Hawaii. Everyone is in a minority. Caucasians (haoles) are about $\frac{34}{100}$ of the population. Write the fraction in simplest form.

Name: _____

Every year our members hold a Ducky Derby on the river. Five red rubber ducks are put in the river along with two yellow ducks for each contributor. This year there were 1,980 yellow ducks. If all the ducks start at the same time and place, what is the probability that a red duck will finish the race first? (Write your answer as a fraction in simplest terms.)

Connor and Max were playing a board game they had made for Anti-Boredom Month. The game used a spinner with five spaces numbered 1 to 5. Connor needs to land on a number greater than 3 to win the game. What is the probability he will win the game on this spin?

Jason packs boxes of loose tea into cartons for shipping. Each box measures 4 inches x 3 inches x 9 inches. The cartons are 24 inches x 24 inches x 27 inches. How many boxes of loose tea will fit into each carton?

The top three languages in Nevada are English, Spanish, and Tagalog. The population of Nevada is approximately 2,110,000. If $\frac{3}{5}$ of the people speak Spanish or Tagalog or both, how many people speak English?

The average American ate 11.7 pounds of chocolate in 1997. Write an equation and solve it to find out the number of pounds of chocolate eaten by a family of four during the same year.

word root **aug** can mean **increase****augment, augmentation**

Name: _____

Mr. Garcia went to the store to buy half-pint and pint jars for his wife to use for her homemade mustard. Half-pint jars come in boxes of 12. Pint jars come in boxes of 9. What is the least number of boxes of half-pint and pint jars he will have to buy to have the same number of each size jar?

A circle is randomly painted with small splotches of three different colors. One-sixth of the circle is red, half of the circle is blue, and the rest is green. What is the probability that a randomly thrown dart (thrown by a blindfolded person who has never seen the board), that hits the board, will land on a green area?

Show the steps to solve $9(43 + 7 - 16) \times 13 \div 9 + 957$.

Step 1. Parentheses

Step 2. Exponents

Step 3. Multiplication & Division (or Division & Multiplication!)

Step 4. Addition & Subtraction (or Subtraction & Division!)

Consistent Claire loves practicing her free throws. She is so consistent. Every game she gets the same percentage of free throws in the hoop. In the last game she played, Claire made 12 of 15 attempted free throws. In today's game, she attempted 20 free throws. If her percentage for this game is the same as her last game, how many of them went in?

Name: _____

Complete each pattern, using the same rule. Write what the rule is.

____, ____, F, I, G, J, H, K, I, L, J, M, K, N

G, M, H, ____, ____, O, J, P, K, Q, L, R

Complete each pattern. Write what the rule is.

123757, 712375, 571237, 757123, 375712, 237571, 123757,

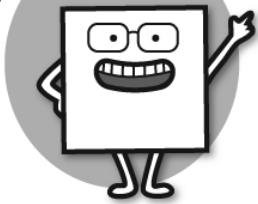
_____, _____, 757123, 375712, 237571, 123757, 712375

41165, 54116, 65411, _____, _____, 41165, 54116,

65411, 16541, _____, _____, 54116, 65411, 16541

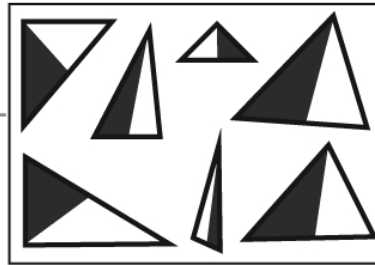
Name: _____

Classification



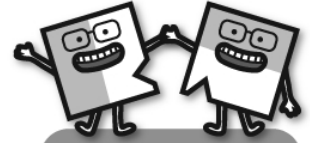
What is true about all of the shapes in the box?

example

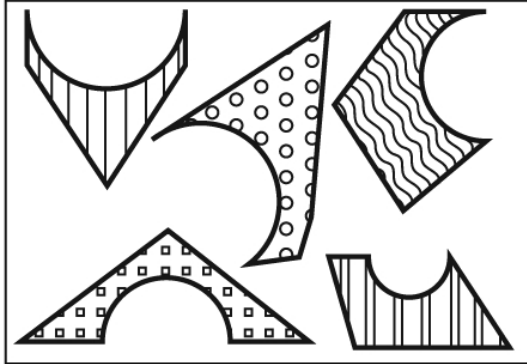


Every shape is:

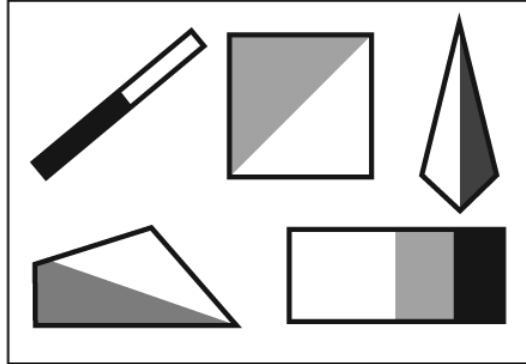
1. a square
2. half white
3. three-sided
4. a triangle
5. the same size



Circle the shape that matches the most.

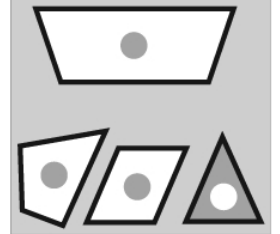
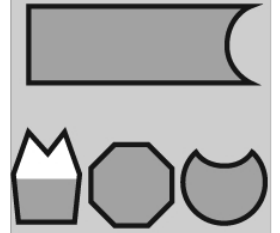
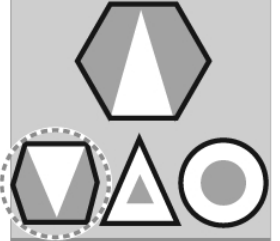
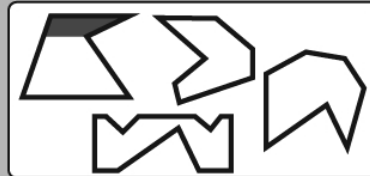
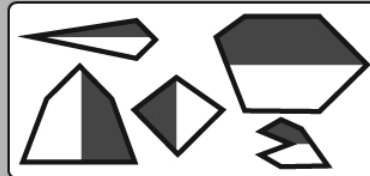
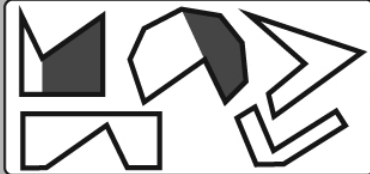
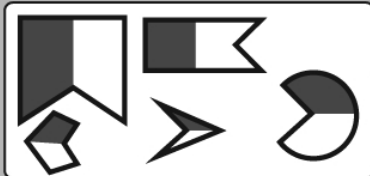


- Every shape has:
1. four straight sides
 2. a 90°/right angle
 3. a semicircle
 4. a pattern
 5. equal sides

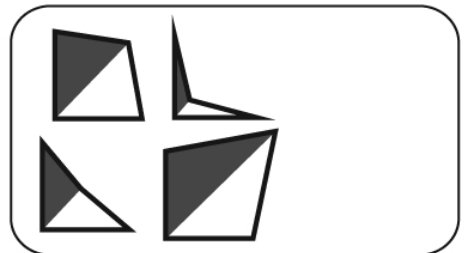
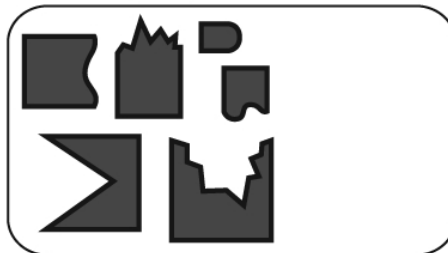
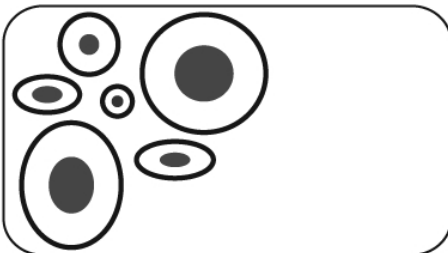


- Every shape has:
1. a 90°/right angle
 2. three sides
 3. four sides
 4. a white half
 5. two parallel sides

Match the groups of shapes that have the same characteristics.



Add a shape to each group that has the same characteristics.



Name: _____

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

90% of 50



40% of 160



100% of 55



44% of 125



50% of 188



94% of 100



80% of 165



64% of 125



68% of 125



85% of 100



50% of 160



81% of 100



32% of 200



30% of 150



75% of 108



66% of 200



Write the reciprocal.

$$\frac{13}{3}$$

Write the reciprocal.

$$\frac{3}{1}$$

Write the reciprocal.

16

110, 120, 130, 140, _____,

160, 170, 180, 190

$$5\frac{3}{5} + 4\frac{4}{5}$$

What 3 coins add up to 31 cents?

Round 59,563 to the nearest hundred.

What is 50% of 1,500?

$$41 + n = 57$$

What is the value of n?

$$21 \div 7 - 1$$

Round the decimal 0.435 to the nearest hundredth.

Estimate quickly the difference.
4,920 - 1,710

Name: _____

Wendy made a poster for National Pretty Is as Pretty Does Day. The poster was 30 inches x 45 inches. She used .680 of the poster's total area for pictures. What percent of the poster was left for text?

Peter's first jazz piano performance lasted $13\frac{2}{3}$ minutes. His second piece lasted $69\frac{4}{60}$ minutes. Which lasted longer? How much longer? (Round off the answer to the nearest 0.01 minute.)

"Hey, Ted!" called out his friends. But Ted didn't reply. He was texting. They don't call him Texty Ted for nothing! Ted can send 18 texts in 3 minutes. At precisely 7:11 and 0 seconds, Ted sat outside the school and started to send texts. He sent texts until 7:57 and 0 seconds when his phone ran out of power. How many texts do you think Texty Ted completed and sent?

The (make-believe) country of Slowmonia, after 17 years of research, launched a rocket into space to land on Pluto. It is slow! It travels 2.356 kilometers in a month. How far will it travel in 33 years?

Name: _____

Which of the following has the greatest value?

- A) 44
- B) 0.44
- C) A and B are equal.

$$6 \times 10 \times 5 =$$

- A) 350
- B) 300
- C) 102
- D) A and B are equal.

Which product is even?

- A) 19×69
- B) 25×68
- C) 19×47
- D) 99×83

$$8 + 23 \times (16 \div 2) = \underline{\hspace{2cm}} + 32?$$

- A) 160
- B) 192
- C) 288
- D) A and B are equal.

What number is missing from the following sequence?

1372, 196, _____, 4

- A) 163
- B) 186
- C) 132
- D) 28

The diameter of a circle painted by Bill is 11 feet. What is the length of its radius?

- A) 6 feet
- B) 23 feet
- C) 24.5 feet
- D) 5.5 feet

Name: _____

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

Alex has \$71.12. He has 9 bills and 12 coins. How?

\$10				
5¢				

Justin has \$63.21. He has 9 bills and 20 coins. How?

Mary has \$86.89. She has 8 bills and 8 coins. How?

word root **poly** can mean **many** **polygamy, polyphonic**

Name: _____

In art class, the teacher asked the class to draw a rectangle.

Mrs. Davis is not just the art teacher but also the math teacher. She loves to talk numbers! She explained, "I don't want to give you the exact size, but the ratio of one of the sides of your rectangle to the side next to it should be 6 to 2. Each side of the shape must have a length that is a whole number of inches."

Rosa wants to draw the biggest rectangle on her 17.5-inch by 24.5-inch piece of paper.

What size should she draw the rectangle?

$$-8 - -2 =$$

$$25 + -36 =$$

$$-42 + 35 =$$

It was 7 degrees above zero in the morning. By afternoon the temperature rose 19 degrees. How warm was it?

It was 73 degrees outside. What would the temperature be if it got 20 degrees colder?

How much time is it from 7:00 a.m. to 10:25 a.m.?

Jenna rolls a die. What is the chance of her rolling a 3?

Circle the greatest number:

8,063

49,635

408,723,659,194

715,280,721

Name: _____

Solve for the unknown value. Hint: It is a positive whole number.

$$9g = 63 \quad g = \underline{\hspace{2cm}}$$

$$54 + r = 83 \quad r = \underline{\hspace{2cm}}$$

$$z + 29 = 80 \quad z = \underline{\hspace{2cm}}$$

$$m + 48 = 102 \quad m = \underline{\hspace{2cm}}$$

$$45 + m = 85 \quad m = \underline{\hspace{2cm}}$$

Know how many inches in a foot? Okay, smarty pants, how many inches in 8 feet?

13, 15, 17, _____, 21, 23, 25

B, G, _____, Q, V

Draw a number line with 0, $\frac{1}{2}$, and 1. Show where $\frac{10}{11}$ would go. Is $\frac{10}{11}$ closer to 0, $\frac{1}{2}$, or 1?

How much money is 1 quarter, 6 dimes, 1 nickel, and 1 penny?

Circle the three numbers whose product equals 360.

6	4	7
5	12	4

word root **mis** can mean **wrong or bad**

misnomer

Name: _____

8	4	6	4
-	0		
	4	6	
-	4	0	
		6	4
	-	6	4
			0

3	6	5	7
-			
	-		
	-		

5	7	2	5

6	4	7	7	6

7	7	4	8	3

9	8	8	4	7

Name: _____

$$0.0004 \times 0.7$$

Rewrite $\frac{17}{25}$ as a decimal.

What is the greatest common factor of the numbers 48 and 32?

$$y = x + 17$$

$$y = 28$$

What is the value of x ?

Rewrite $\frac{3}{10}$ as a decimal.

$$5 \times (54 \div 6) - 40 \div 5 =$$

The angles in a quadrilateral measure 108° , 99° , 104° , and t° . What is the value of t ?

If $1,000,000,000,000 = 10^x$, then what is the value of x ?

A circle graph has four sections. Only three sections are labeled. The labels are 14.7%, 13%, and 17.42%. What should the missing section be?

In what quadrant would you find the point (3, 20)?

Simplify.

$$\frac{26,600}{34,200} =$$

$$7.4166 \times 10^4 =$$

$$0.2 (0.6 (0.2 + 8)) =$$

Simplify.

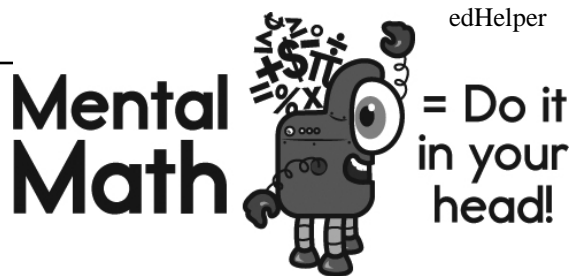
$$\frac{10}{25} =$$

Simplify.

$$\frac{225}{405} =$$

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?



imagine 2 in your head

add 9

multiply 12

Write the tens digit.

A

imagine 3 in your head

add 4

add 5

multiply 4

subtract 7

double it

Write the ones digit.

B

imagine 5 in your head

subtract 5

add 9

add 8

double it

Write the even digit in your answer.

imagine 2 in your head

add 3

add 8

double it

add 5

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

C

What is the sum?

A + B + C

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

_____e_____

9 before 17 _____

9 after 17 _____

4 after 15 _____

5 before 13 _____

7 after 13 _____

1 after 16 _____

6 before 14 _____

2 after 11 _____

8 after 18 _____

Name: _____

50	$+\frac{6}{8}$				-24		+43		$-\frac{4}{9}$
		$-\frac{6}{8}$		$-\frac{4}{6}$					
							$-\frac{3}{9}$		+27
+1		-37		+8			$+7\frac{2}{6}$		
				$76\frac{5}{24}$					
+49				-14			-6		
$+9\frac{7}{8}$				$+5\frac{4}{6}$			-51		
	$-\frac{3}{9}$		+12					-16	$63\frac{7}{72}$

10 x 4 =	826 - 231 = _____	$\begin{array}{r} 34 \\ - 18 \\ \hline \end{array}$	$\begin{array}{r} 45 \\ + 29 \\ \hline \end{array}$
	80 ÷ 10 =		

How many yards are in 18 feet? _____ yards	4 x 10 =	36 ÷ 6 = _____
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Name: _____

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

START 2	3	8	4
9	5	7	6
6	3	1	2
4	7	5	FINISH SUM: 31

$2 + \underline{3} + \underline{8} + \underline{4} + \underline{6} + \underline{2} +$
 $\underline{1} + \underline{5} = 31$

START 4	19	14	3
9	1	19	4
18	9	7	FINISH SUM: 63

$4 + \underline{19} + \underline{\quad} + \underline{\quad} + \underline{\quad} =$
 63

START 9	7	7	6
8	7	6	9
6	7	8	6
7	9	9	FINISH SUM: 59

$9 + \underline{8} + \underline{6} + \underline{\quad} + \underline{\quad} + \underline{\quad} +$
 $\underline{\quad} + \underline{\quad} = 59$

START 5	6	8	7
7	8	3	3
1	1	6	7
2	9	9	FINISH SUM: 35

Did you find a path? Write the equation.

Name: _____

Mental Math

— #1 —

◆ Start with the number 501.

501

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

3 6 8 5 5 3 7 5 4 6 (Circle your answer to double check you are correct.)

◆ Double that number.

9 7 3 8 4 1 2 8 7 6

◆ Increase that number by 27.

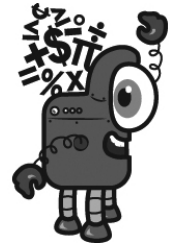
4 1 3 9 8 3 6 6 1 1

◆ Double that number.

8 0 5 7 7 8 4 2 1 5

◆ Increase that number by 11.

8 9 6 7 1 3 5 0 8 9



Mental Math

— #2 —

■ Start with the sum of 4 and 5.

5 6 2 9 6 8 9 9 3 5 (Circle your answer to double check you are correct.)

■ Multiply by 2.

8 1 3 1 6 4 9 1 8 4

■ Double that number.

9 0 1 5 3 0 3 6 2 4

■ Double again.

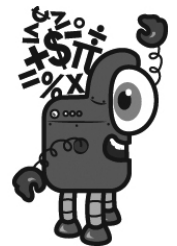
9 1 7 4 7 2 2 9 3 9

■ Increase that number by 5.

2 4 6 4 8 9 7 7 1 5

■ Find three-sevenths.

3 1 4 1 2 3 3 7 1 4



Name: _____

Ready to make equations? There is a missing equation in each box.
Circle the numbers once you find it!

A

88	70	47
+	12	89 78
	51	25 96
	13	24 62

Find an
addition fact.

B

71	35	73
+	74	17 23
	26	14 2
	80	79 27

Find an
addition fact.

C

41	69	57
+	70	52 37
	46	14 74
	95	15 8

Find an
addition fact.

Equations:

Write the equation facts you found.

A	13	+	12	=	25
B	71	+		=	
C		+		=	52

$195 + 152 = \underline{\hspace{2cm}}$

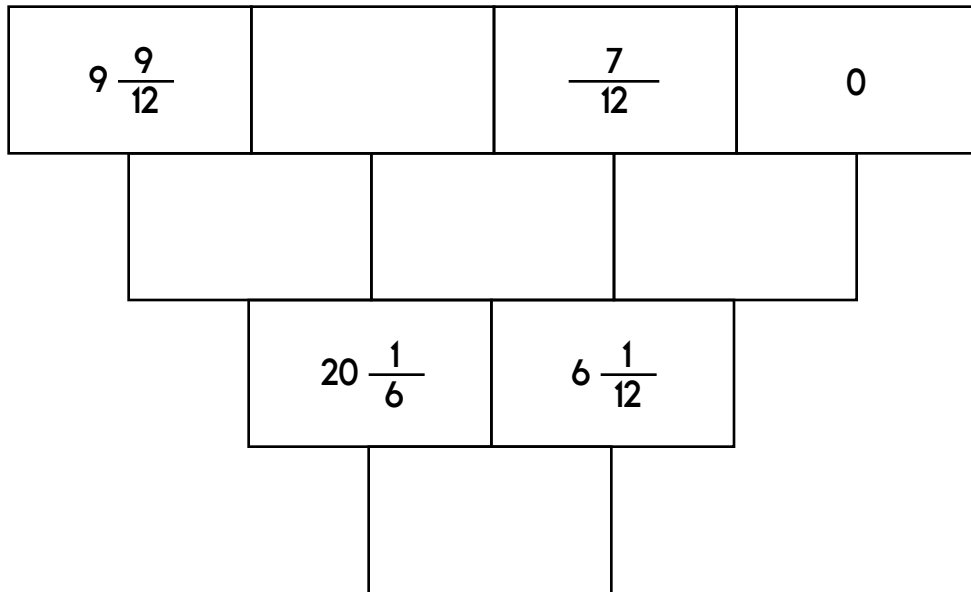
Three cards cost \$12. At that rate, what is the cost of 9 cards?

$$\begin{array}{r} 482 \\ - 351 \\ \hline \end{array}$$

In the number 9,964,857, the digit 6 is in what place?

$6,228 - 3,785 = \underline{\hspace{2cm}}$

$5 \times 10 = \underline{\hspace{2cm}}$

[illegible]

$$\begin{array}{r} 269 \\ + 422 \\ \hline \end{array}$$

For 2,011,659,998, write the digit that is in the hundred thousands place.

$$56 \div 8 = \underline{\hspace{2cm}}$$

Name: _____

$$415 - 639 =$$

$$\begin{array}{r} 145 \\ + 15 \\ \hline \end{array}$$

$$\begin{array}{r} 205 \\ - 119 \\ \hline \end{array}$$

$$\begin{array}{r} 525 \\ - 61 \\ \hline \end{array}$$

$$\begin{array}{r} 717,307 \\ - 19,642 \\ \hline \end{array}$$

$$\begin{array}{r} 9,353 \\ - 833 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ 891 \\ 75 \\ + 58 \\ \hline \end{array}$$

$$7 + 4 + 4 =$$

Find the product of 304 and 5.

$$\begin{array}{r} 95,829 \\ - 5,585 \\ \hline \end{array}$$

$$\begin{array}{r} 5,082 \\ - 75 \\ \hline \end{array}$$

$$\begin{array}{r} 538 \\ + 42 \\ \hline \end{array}$$

$$\begin{array}{r} 509 \\ - 100 \\ \hline \end{array}$$

$$57 - 510 =$$

$$\begin{array}{r} 6,736 \\ - 926 \\ \hline \end{array}$$

Name: _____

Fill in the missing numbers.

$$25 - (-4) = \underline{\hspace{2cm}}$$

$$\underline{\hspace{2cm}} - (-8) = 24$$

$$15 + (\underline{\hspace{2cm}}) = 8$$

$$-23 - (-9) = \underline{\hspace{2cm}}$$

$$\underline{\hspace{2cm}} - (-3) = -19$$

$$-24 + (\underline{\hspace{2cm}}) = -30$$

$$\begin{array}{r} 9.15 \\ - 6.6 \\ \hline \end{array}$$

$$\begin{array}{r} 6.8 \\ 15.8 \\ + 4.9 \\ \hline \end{array}$$

$$\begin{array}{r} 2.14 \\ + 2.55 \\ \hline \end{array}$$

35 divided by 5 equals

$$5 \div \frac{1}{6}$$

A toy car can go 4 mph.
How long would it take to
go 2 miles?

$$15 \div 5 = \underline{\hspace{2cm}}$$

$$8 \times 11 = \underline{\hspace{2cm}}$$

$$64 \div 8 = \underline{\hspace{2cm}}$$

Name: _____

Zeeka has invented a new space vehicle to go from his home planet of Zomba to his friend's planet of Oomba. It is a fun ride! It can fly at a speed of 900 mph. How far will it go in 5 minutes? Round your answer to the nearest mile.

What is the least common multiple of 12 and 11?

What is the least common multiple of 4, 35, and 32?

What is the least common multiple of 14 and 18?

What 6 coins add up to 110 cents?

Estimate quickly the difference.
4,120 - 2,100

It was 90 degrees outside. What would the temperature be if it got 14 degrees colder?

$$6 \div 2 = \underline{\hspace{2cm}}$$

What time is 15 hours after 3:00 a.m.?

$$27 \div 3 = \underline{\hspace{2cm}}$$

Name: _____

Complete each pattern. Write what the rule is. HINT: The first two numbers in each pattern are random numbers.

2.1, 6.3, 8.4, 14.7, 23.1, 37.8, 60.9,
98.7, 159.6, 258.3, 417.9, _____, _____, _____

7.4, 17.5, 24.9, 42.4, 67.3, 109.7, 177,
286.7, 463.7, 750.4, _____, _____, _____

Complete each pattern. Write what the rule is.

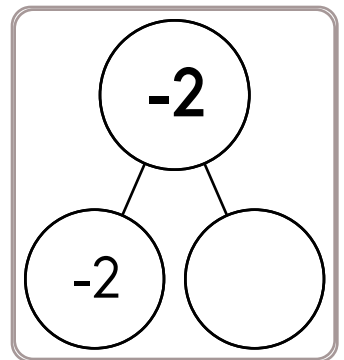
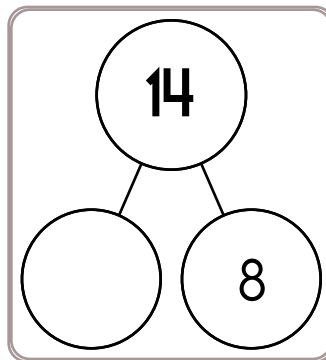
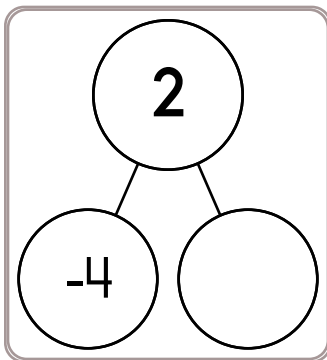
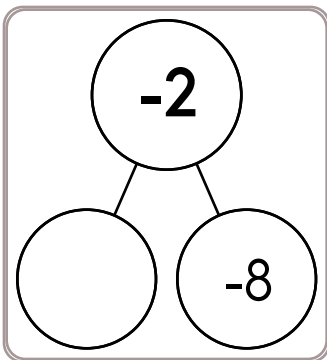
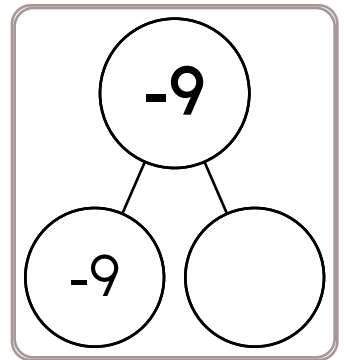
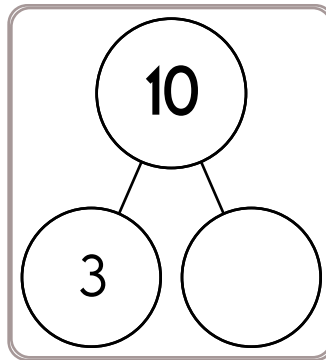
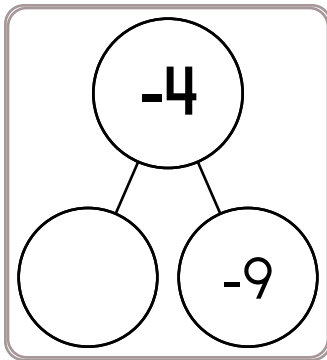
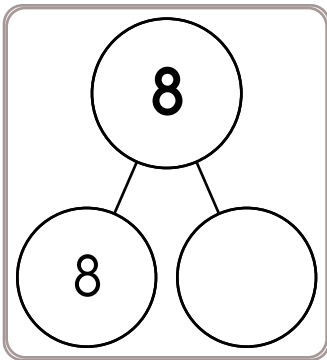
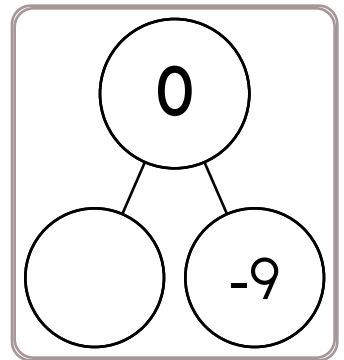
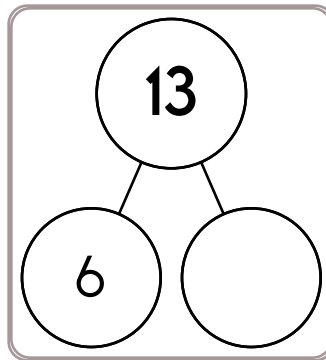
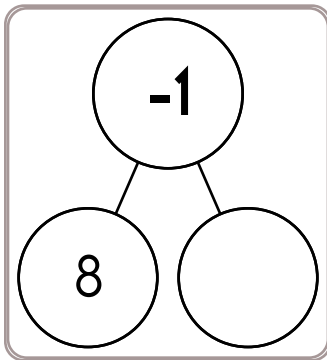
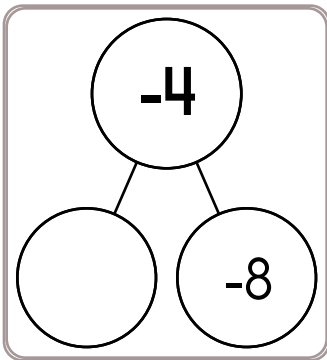
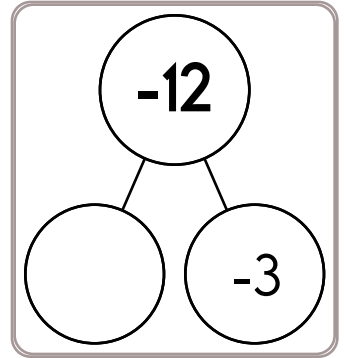
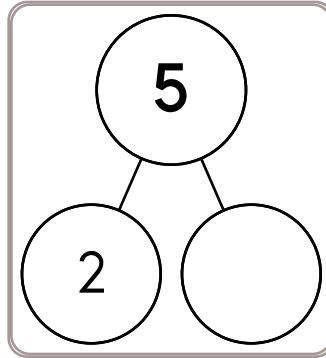
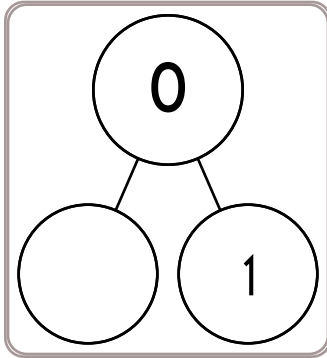
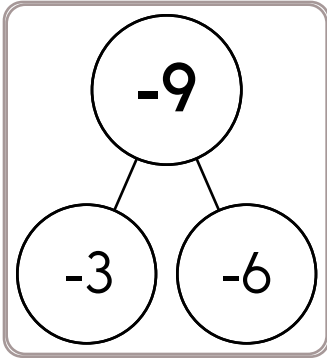
9.8	19.6	29.4
39.2	49	
68.6		88.2
98		117.6



Name: _____

Get a fidget spinner! Spin it.

I needed to spin _____ time(s) to finish.



Name: _____

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

Make \$13.54 using bills and coins.

			\$1		
25¢					

Show a different way to make \$13.54 using a different number of bills or coins.

Make \$16.57 using bills and coins.

Show a different way to make \$16.57 using a different number of bills or coins.

$9,194 + 1,273 = \underline{\hspace{2cm}}$

$948 + 117 = \underline{\hspace{2cm}}$

Name: _____

It was 9 degrees above zero in the morning. By afternoon the temperature rose 26 degrees. How warm was it?

How many meters are there in 131 kilometers?

J, G, L, H, N, I, P, _____,

R, K

863412, 128634, 341286,

863412, 128634, 341286,

_____, 128634, 341286,

863412, 128634, 341286,

863412, 128634

$\frac{1}{5}$, $\frac{2}{5}$, $\frac{3}{5}$, $\frac{4}{5}$, 1, $1\frac{1}{5}$,
 $1\frac{2}{5}$, $1\frac{3}{5}$, $1\frac{4}{5}$, 2,
 _____, $2\frac{2}{5}$, $2\frac{3}{5}$,
 $2\frac{4}{5}$, 3, $3\frac{1}{5}$, $3\frac{2}{5}$,
 $3\frac{3}{5}$

Pick the family fact that is missing.

$$162 \div 18 = 9$$

$$18 \times 9 = 162$$

$$9 \times 18 = 162$$

$$6 + 40 \div 4 - 48 \div 12 =$$

$$|-7| - g = 3$$

$$g =$$

What is the greatest common factor of the numbers 70 and 126?

Simplify.

$$\frac{24}{40} =$$

Rewrite $\frac{33}{100}$ as a decimal.

Simplify.

$$\frac{72}{108} =$$

Name: _____

Cross off the number that does NOT belong.

35, 47, 59, 71, 83, 90, 95

Why does _____ not belong in the pattern?

Cross off the number that does NOT belong.

(192,216,796,875), (12,814,453,125), (854,296,875),

(56,953,125), (3,796,875), (253,125), (16,875),

(4,348), (1,125), (75)

Why does _____ not belong in the pattern?



Name: _____

Get a fidget spinner! Spin it.

I needed to spin _____ time(s) to finish.

Estimate quickly the difference.

$$4,080 - 2,700$$

$$(50,331,648), (6,291,456),$$

$$(786,432), \underline{\hspace{2cm}}, (12,288),$$

$$(1,536), (192), (24)$$

The diameter of a circle is 468 cm. What is the radius of this circle?

Draw a number line

with 0, $\frac{1}{2}$, and 1. Show where $\frac{10}{12}$ would go. Is $\frac{10}{12}$ closer to 0, $\frac{1}{2}$, or 1?

Round 57,734 to the nearest hundred.

70 divided by 7 equals

$$11y - 9.8 = 45.2$$

$$y =$$

$$|-7| - m = 3$$

$$m =$$

If $a = 7$ and $y = -16$ then what is the value of t ?

$$4a - 10y + 2y = t$$

$$|-13| + g = 11$$

$$g =$$

$$0.7 (0.9 (0.7 \times 3)) =$$

If $a = 8$ and $b = 6$,

then

$$4a + b =$$



Name: _____

Spin again.

I needed to spin _____ time(s) to finish.

The perimeter of a rectangle is 20 cm. The longer side is 6 cm. How long is the shorter side?

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

12, 19, 27, 36, _____, 57,
69, 82, 96, 111, 127

$$39 + n = 52$$

What is the value of n ?

How many meters are there in 196 kilometers?

What is the area of a rectangle with sides 5 cm and 6 cm?

$$0.1 (0.8 (0.1 + 6)) =$$

Simplify.

$$\frac{3,400}{5,100} =$$

What is the remainder of 15 divided by 4?

$$7 \times 66 \div 6 - 96 \div 12 =$$

40, 45, 50, _____, 60, 65,
70, 75, 80, 85

$$5 + (36 \div 3) - 80 \div 8 =$$

$$10.2998 \times 10^4 =$$

If $2x = 36$, then $x =$

The letter V has an unknown value. If you multiply V by twenty, the product is four. What value does V have?

Name: _____

The letters A, Q, and M each stand for a positive whole number. How many DIFFERENT values can you find for them?

$$M > A$$

$$M < 23$$

$$A > 6$$

$$A + 9 = Q$$

Anna is binge watching Season 4 of her favorite series. Each episode is 1 hour and 16 minutes long. She just started watching and hopes to watch for 5 hours today. How many complete episodes will she be able to watch?

Name: _____

The pressure in a water cooling line at a power plant must remain less than a certain value before an emergency situation occurs. The pressure is at 82% of the emergency limit and the limit is one hundred two pounds per square inch (PSI). The pressure is measured in increments of 0.1 PSI. How many PSI can the pressure rise without reaching the emergency pressure limit?

Jason is hiking in the national park. He is on an $8\frac{1}{4}$ -mile hike and he makes four evenly spaced rest stops along the way. At what mile of the hike does he make his last stop?

In some places eggs are sold by the score (20) while in others they are sold by the dozen (12). What is the smallest number of eggs that could be purchased either by the score or by the dozen, such that the same number of eggs was purchased either way?

The beach is beginning to erode near the lighthouse. The lighthouse is only ninety-two feet from the water now. If the beach erodes at the rate of 2.9 feet per year, how many years will it be, rounded to the nearest year, before the water reaches the lighthouse?

Mr. Bloop has a cylindrical water tank on his farm. It is nine feet long and 1 foot 4 inches in diameter. Water flows out a valve in the bottom of the tank at a rate of 3.7 cubic feet per minute. At that rate, how long will it take to empty the tank when the tank is full?

The water potential in one plant cell was calculated to be -3 bar. The water potential in another cell was found to be -11 bar. What was the difference in water potentials? Note: the bar is a pressure unit equal to about 14.5 PSI.

Name: _____

$366 + 89 =$

$$\begin{array}{r} 647 \\ - 12 \\ \hline \end{array}$$

$$\begin{array}{r} 743 \\ - 326 \\ \hline \end{array}$$

Write the reciprocal.

$\frac{5}{12}$

Write the reciprocal.

$\frac{2}{6}$

$7 - \frac{1}{5} + \frac{4}{5} =$

Change $\frac{38}{50}$ to a decimal.Change $\frac{8}{10}$ to a decimal.

Change 0.60 to a percent.

Change $\frac{19}{100}$ to a percent.

63 is what percent of 105?

Find 5% of 38.

Find 20% of 90.

Change 15% to a decimal.

Find 50% of 201.

Name: _____

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

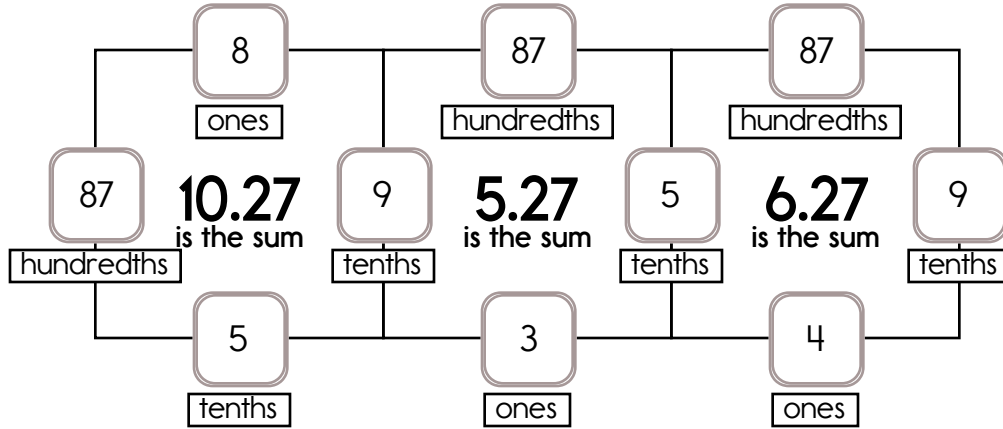
Example:

$$0.87 + 0.9 + 8 + 0.5 = 10.27$$

Example:

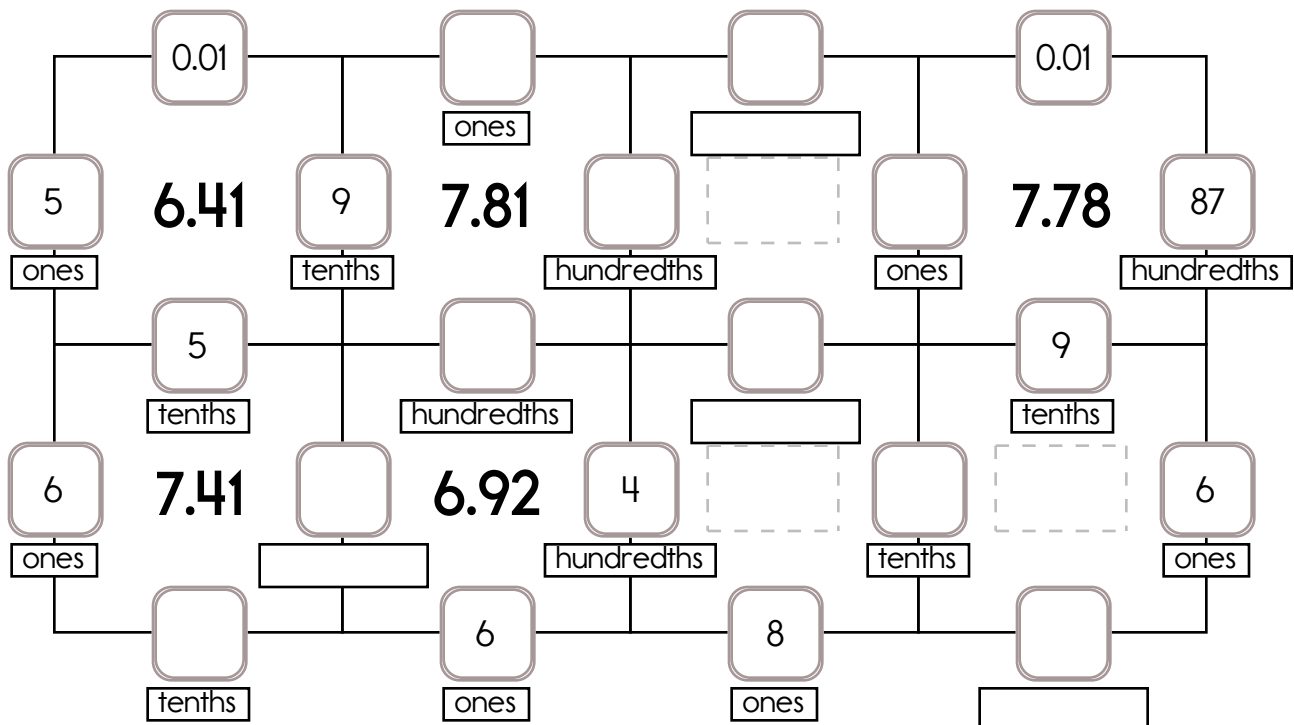
$$0.5 + 0.9 + 0.87 + 4 = 6.27$$

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: 6 ones, 3 ones, 8 ones, 4 ones, or 5 ones.

The other three numbers have to all be DIFFERENT and must be from these: 87 hundredths, 4 hundredths, 5 tenths, 9 tenths, or 0.01.



Name: _____

Write the reciprocal.

$$\frac{22}{23}$$

$$83 - \frac{5}{12} =$$

Write the reciprocal.

$$\frac{2}{3}$$

Find the least common denominator.

$$\frac{5}{6} \text{ and } \frac{8}{10}$$

$$3\frac{1}{2} \div 2\frac{1}{7} =$$

$$7 \div \frac{6}{11} =$$

$$13 - \frac{2}{5} - \frac{5}{12} =$$

Write the reciprocal.
6

$$15 + \frac{1}{2} - \frac{1}{5} =$$

$$\begin{array}{r} 6\frac{10}{11} \\ + 1\frac{2}{9} \\ \hline \end{array}$$

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

$$\begin{array}{r} 22\frac{3}{4} \\ - 3 \\ \hline \end{array}$$

Name: _____

Draw a line from START to END.

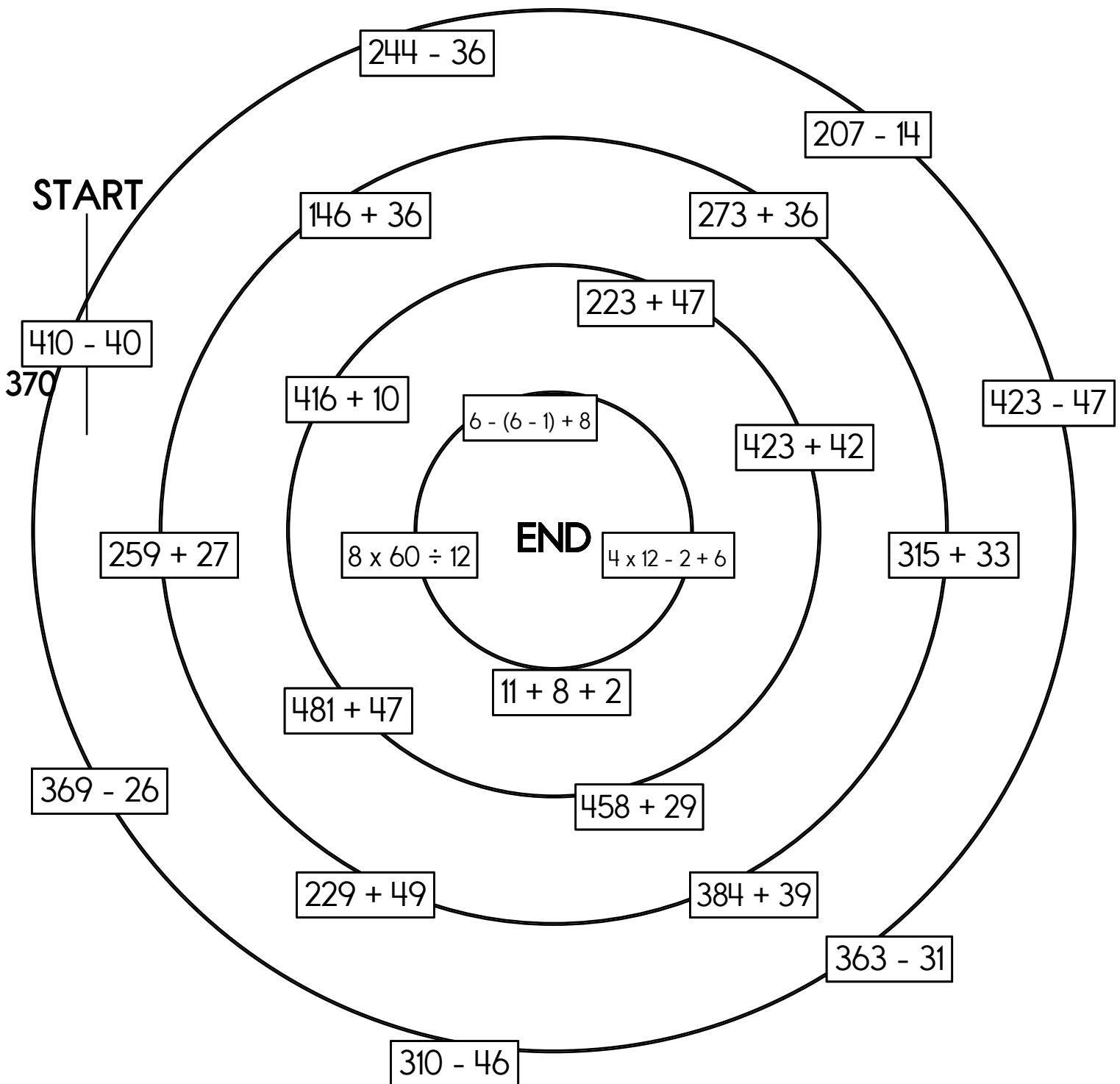
~~370~~

487

52
















182

Cross out the number you use above and then write it below.



Name: _____

Puzzle:

4				576
				3,528
				2,016
				2,352
1,296	3,136	896	2,646	X

Work Area:

4				576
				3,528
				2,016
				2,352
1,296	3,136	896	2,646	X

The product for each column and row is given. Blanks use numbers 2 to 9 only.



= _____



= _____



= _____



















= _____



= _____

Puzzle:

				96
				576
				3,136
				784
1,344	336	1,344	224	X

Work Area:

				96
				576
				3,136
				784
1,344	336	1,344	224	X

The product for each column and row is given. Blanks use numbers 2 to 9 only.



= _____



= _____



= _____



= _____



Name: _____

Get a fidget spinner! Spin it.

I needed to spin _____ time(s) to finish.

Find the GCF using the Birthday Cake method.

3	126	90
2	42	30
3	21	15
	7	5
GCF: $3 \times 2 \times 3 = 18$		

3	60	144
4	20	48
GCF: _____		

5	135	90
GCF: _____		

3	21	30
GCF: _____		

2	14	20
GCF: _____		

60	24
GCF: _____	

45	35
GCF: _____	

42	78
GCF: _____	



Name: _____

Spin again.

I needed to spin _____ time(s) to finish.

Find the GCF using the Birthday Cake method.

<div style="display: flex; align-items: center; border-bottom: 1px solid black; margin-bottom: 5px;"><div style="width: 50px; text-align: center;">2</div><div>48 72 36</div></div> <div style="display: flex; align-items: center; border-bottom: 1px solid black; margin-bottom: 5px;"><div style="width: 50px; text-align: center;">2</div><div>24 36 18</div></div> <div style="display: flex; align-items: center; border-bottom: 1px solid black; margin-bottom: 5px;"><div style="width: 50px; text-align: center;">3</div><div>12 18 9</div></div> <div style="display: flex; align-items: center;"><div style="width: 50px; text-align: center;">4</div><div>6 3</div></div> <div style="margin-top: 20px;">GCF: <u>$3 \times 2 \times 2 = 12$</u></div>	<div style="display: flex; align-items: center; border-bottom: 1px solid black; margin-bottom: 5px;"><div style="width: 50px; text-align: center;">10</div><div>100 160 220</div></div> <div style="display: flex; align-items: center; border-bottom: 1px solid black; margin-bottom: 5px;"><div style="width: 50px; text-align: center;">2</div><div>10 16 22</div></div> <div style="margin-top: 20px;">GCF: _____</div>
<div style="display: flex; align-items: center; border-bottom: 1px solid black; margin-bottom: 5px;"><div style="width: 50px; text-align: center;">3</div><div>48 72 66</div></div> <div style="margin-top: 20px;">GCF: _____</div>	<div style="display: flex; align-items: center; border-bottom: 1px solid black; margin-bottom: 5px;"><div style="width: 50px; text-align: center;">4</div><div>44 40 36</div></div> <div style="margin-top: 20px;">GCF: _____</div>
<div style="display: flex; align-items: center; border-bottom: 1px solid black; margin-bottom: 5px;"><div style="width: 50px;"></div><div>255 195 75</div></div> <div style="margin-top: 20px;">GCF: _____</div>	<div style="display: flex; align-items: center; border-bottom: 1px solid black; margin-bottom: 5px;"><div style="width: 50px;"></div><div>160 100 340</div></div> <div style="margin-top: 20px;">GCF: _____</div>



Name: _____

Get a fidget spinner! Spin it.

I needed to spin _____ time(s) to finish.

$$7h - 23.6 = 39.4$$

 $h =$ Rewrite $\frac{21}{50}$ as a decimal.

$$t - 18 + 11 = 20$$

What is the value of t ?Rewrite $\frac{6}{25}$ as a decimal.

Simplify.

$$\frac{16}{64} =$$

$$|-10| + p = 17$$

 $p =$

If $c = -4$ and $p = 38$ then
what is the value of t ?
 $5c + 14p - 4p = t$

What is the greatest
common factor of the
numbers 52 and 91?

Simplify.

$$\frac{46}{92} =$$

At the dive meet Robert
received scores of 5.8, 6.3,
6.4, 5.8, and 6.9. The
largest and smallest scores
were dropped and the rest
were averaged for a final
score and rounded to the
nearest tenth. What is the
final score Robert
received?

Rewrite as an algebraic
expression or equation.

Add 16 to the product of 4
and f

What is the perimeter
of a rectangle with a
length of 27 centimeters
and a width that is $\frac{1}{3}$
the length?



Name: _____

Spin again.

I needed to spin _____ time(s) to finish.

$$\frac{6}{12} \div \frac{8}{36} =$$

$$7 + 63 \div 7 - 12 \div 3 =$$

$$11 \times 11 \div 1$$

The letter p is used to represent power points in a game. The points must be greater than 721 but less than 1,831. Express this as an inequality.

A circle graph has five sections. Only four sections are labeled. The labels are 27%, 22%, 12%, and 17%. What should the missing section be?

Write as an algebraic expression.

795.8 multiplied by the difference of b and x

$$0.4 (0.5 (0.4 \times 2)) =$$

In what quadrant would you find the point (-2, 17)?

$$7 + (56 \div 8) - 50 \div 10 =$$

$$|-12| + g = 5$$

$$g =$$

$$0.3 (0.6 (0.3 + 2)) =$$

Simplify.

$$\frac{5,000}{10,000} =$$

Name: _____

Emily volunteered at the Red Cross office. She packed boxes of food to be taken to families whose homes had been destroyed by a tornado. The tornado was huge and many families were in the Red Cross shelters. In 7 days, Emily and 15 other volunteers packed 1314 boxes of food. What was the average number of boxes packed per volunteer each day? Round your answer to the nearest whole number.

The farmers built a water wheel in the river to send water to their fields. The diameter of the water wheel is five meters. The wheel turns completely around in four minutes. A waterbug hitched a ride on the wheel and stayed in the same place for 12 minutes. How far did the bug travel? Round your answer to the nearest hundredth of a meter.

According to a survey, 82% of adults in the United States pray at least once a week. Out of a group of 17,500 adults, approximately how many pray at least once a week?

Hannah decided to make 4 dozen cookies for the Just Because Festival at her school. The recipe called for $\frac{1}{2}$ of a cup of chips for each cup of flour used. If Hannah uses $4\frac{2}{3}$ cups of flour, how many cups of chips will she need?

Of the 27 students in Mr. Taylor's class, $\frac{2}{3}$ like popcorn. Of those that like popcorn, $\frac{3}{4}$ of them like extra butter and salt. How many students like extra butter and salt?

Name: _____



$80 \div \underline{\quad} = 8$

$\underline{\quad} \div 12 = 8$

$36 \div \underline{\quad} = 3$

$\underline{\quad} \div 6 = 6$

$20 \div \underline{\quad} = 2$

$\underline{\quad} \div 3 = 8$

$\underline{\quad} \div 12 = 2$

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

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

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

$\underline{\quad} \div 8 = 9$

$\underline{\quad} \div 8 = 2$



$243 \div 27 =$

$657 \div 9 =$

$686 \div 7 =$

$392 \div 8 =$

$104 \div 4 =$

$310 \div 5 =$

$76 \div 38 =$

$322 \div 46 =$

32

x

8

4

32

x

4

56

x

7

54

x

6

24

x

4

56

x

8

56

x

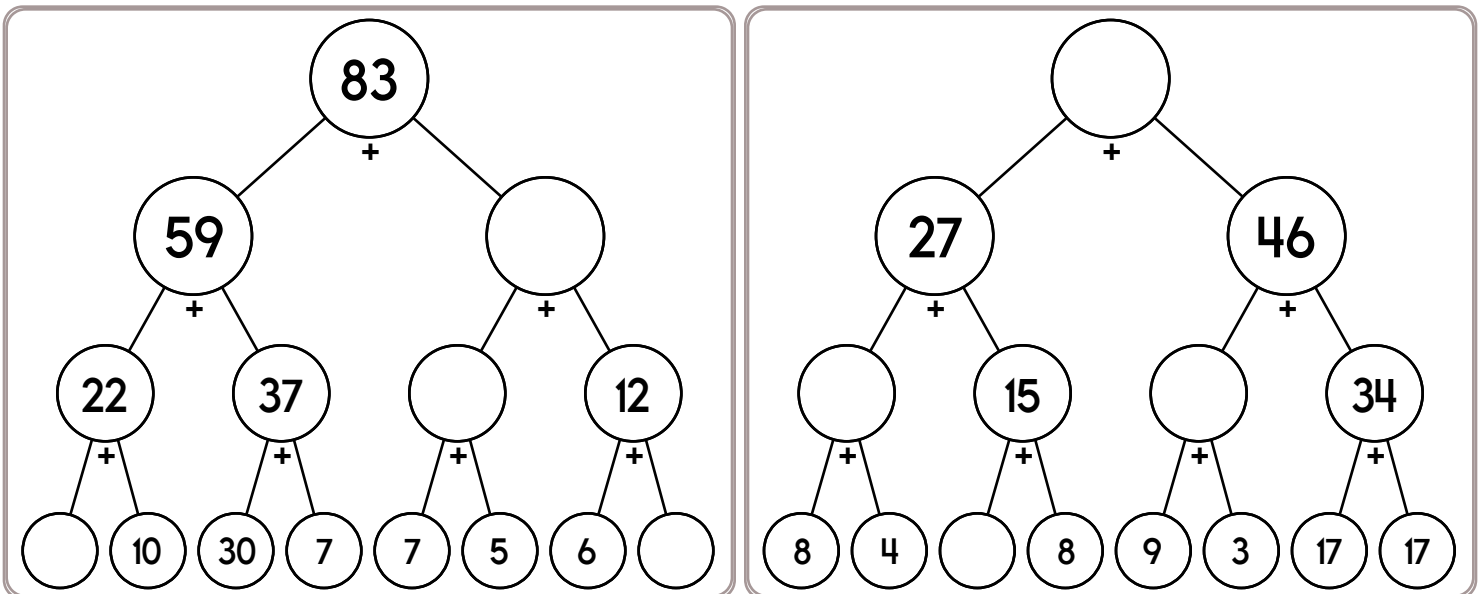
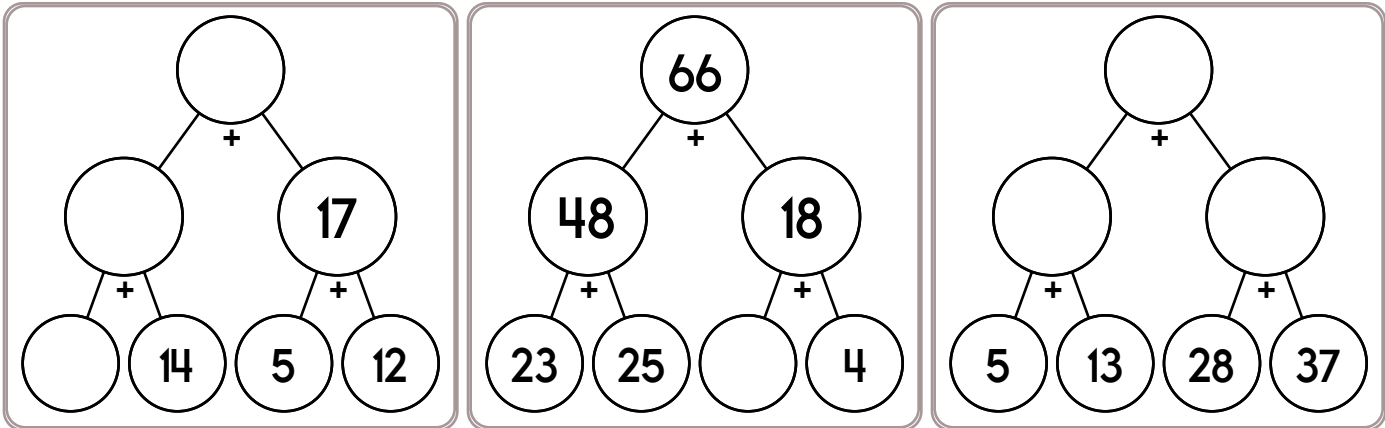
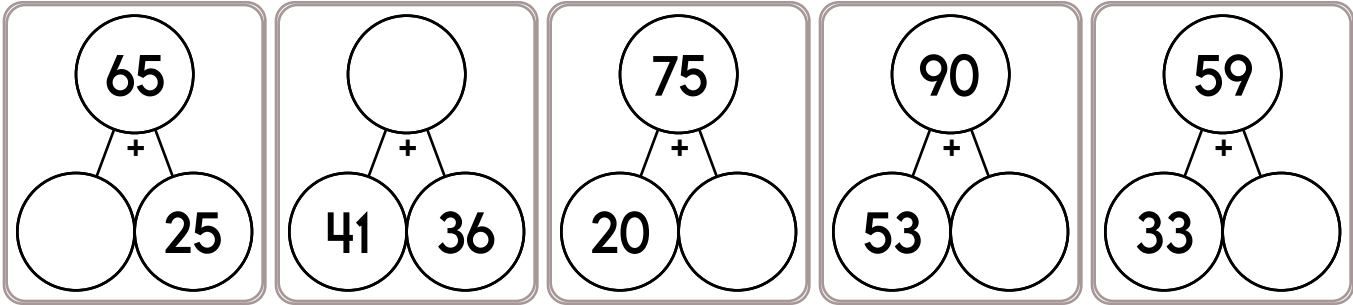
8

18

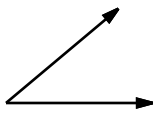
x

3

Name: _____



Sketch 2 lines \overleftrightarrow{GH} and \overleftrightarrow{ST} that are parallel.



What kind of angle is this?

word root **di** can mean **day****diary**

Name: _____

$$8 \overline{) 6.4}$$

$$4 \overline{) 2.8}$$

$$6 \overline{) 6.0}$$

$$7 \overline{) 1.47}$$

$$9 \overline{) 5.4}$$

$$5 \overline{) 1.5}$$

$$7 \overline{) 0.84}$$

$$4 \overline{) 2.1}$$

$$4 \overline{) 2.3}$$

An angle measures 67° .
What would you call this angle?

Sketch an obtuse angle
named $\angle FGH$.

Sketch an acute angle
named $\angle DEF$.

Name: _____



$2 \times 9 =$

$8 \times 8 =$

$9 \times 6 =$

$2 \times 8 =$

$9 \times 5 =$

$3 \times 2 =$

$8 \times 3 =$

$7 \times 9 =$

$8 \times 4 =$

$7 \times 8 =$

$5 \times 5 =$

$3 \times 4 =$



$82 \times \underline{\quad} = 738$

$\underline{\quad} \times 5 = 495$

$\underline{\quad} \times 5 = 375$

$42 \times \underline{\quad} = 378$

$27 \times \underline{\quad} = 189$

$\underline{\quad} \times 2 = 82$

$\underline{\quad} \times 5 = 305$

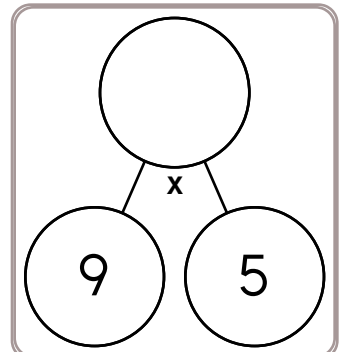
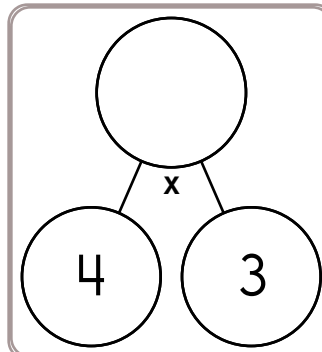
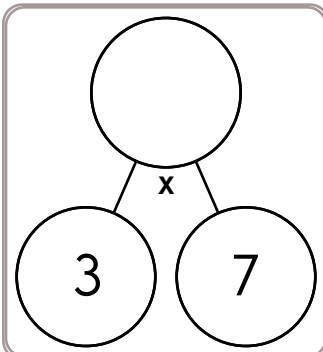
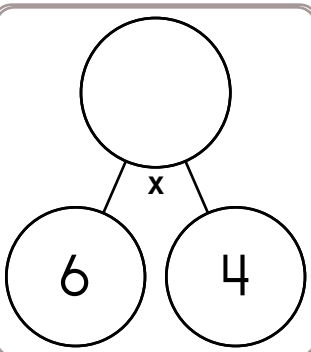
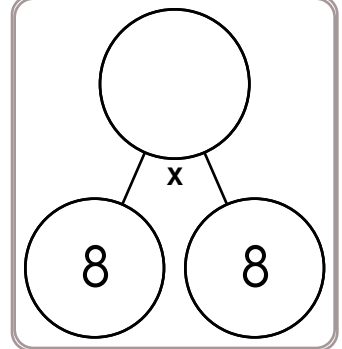
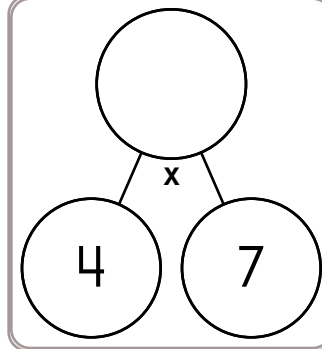
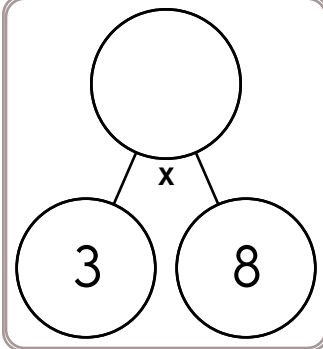
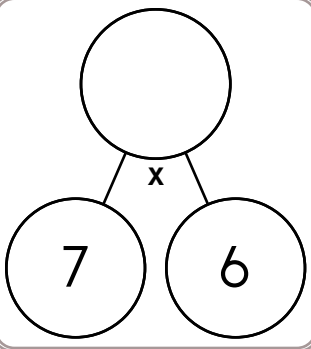
$37 \times \underline{\quad} = 148$

$55 \times \underline{\quad} = 330$

$\underline{\quad} \times 4 = 272$

$\underline{\quad} \times 5 = 330$

$13 \times \underline{\quad} = 91$



Name: _____

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What is the greatest common factor of the numbers 42 and 98?

$$\frac{11}{12} \div \frac{1}{3} =$$

Rewrite $\frac{7}{50}$ as a decimal.

In what quadrant would you find the point (1, 19)?

$$9.7113 \times 10^3 =$$

$$\frac{7}{10} \times \frac{1}{7}$$

What is the area of a rectangle with a length of 40 centimeters and a width that is $\frac{1}{4}$ the length?

$$\frac{j}{3} + \frac{2}{5} = 1\frac{1}{15}$$

$j =$

If $p = -4$ and $w = 34$ then what is the value of y ?
 $6p - 14w - 4w = y$

Name: _____

$$5 + \frac{1}{3} + \frac{2}{7} =$$

Reduce $\frac{56}{120}$ to its lowest terms.

$$19 + \frac{7}{12} - \frac{2}{3} =$$

Find the product of 78 and 8.

$$\begin{array}{r} 197 \\ \times 30 \\ \hline \end{array}$$

$$\begin{array}{r} 2,755 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 8.1 \\ \times 5 \\ \hline \end{array}$$

$$8 \overline{) 75.2}$$

$$\begin{array}{r} 4.95 \\ \times 2 \\ \hline \end{array}$$

$$17 - 8 = \underline{\quad}$$

$$4 - 3 - 2 =$$

$$14 - 3 = \underline{\quad}$$

$$17 + -8 = \underline{\quad}$$

$$14 + -3 = \underline{\quad}$$

Write as a decimal.
Nine tenths

Write as a decimal.

$$9 \frac{871}{1000}$$

Write as a decimal.
Three and three tenths

Name: _____

Find the sum of 15, 13, and 40.

Subtract 12 from 567.

Find the sum of 79 and 65.

$$\frac{N}{11} = 4$$

$$\frac{N}{43} = 30$$

$$8m = 72$$

$$30 + -40 =$$

$$-8 \times 11 =$$

$$-4 + 2 =$$

Find 13% of 35.

$$\frac{2}{14} = \frac{?}{7}$$

$$\frac{1}{5} = \frac{?}{45}$$

Write the reciprocal.

$$\frac{11}{13}$$

Write the reciprocal.
10

Write the reciprocal.

$$\frac{6}{1}$$



Name: _____

Get a fidget spinner! Spin it.

I needed to spin _____ time(s) to finish.

How much money is 1 quarter, 6 dimes, 1 nickel, and 1 penny?

How many minutes is it from 7:00 a.m. to 11:20 a.m.?

$$6\frac{3}{6} + 3\frac{3}{6}$$

How many centimeters in 8.3 meters?

$\frac{1}{4}$, $\frac{1}{2}$, (1), _____,
(4), (8), (16), (32),
(64), (128)

How much time is it from 7:00 a.m. to 11:20 a.m.?

What is the area of a rectangle with sides 5 cm and 12 cm?

A rectangle is 32 cm on one side and 14 cm on another side. What is the perimeter?

(117,649), (16,807),
_____, (343), (49),
(7), (1), $\frac{1}{7}$

$$31 + n = 45$$

What is the value of n?

$$8 + 3 + 10 - 12$$

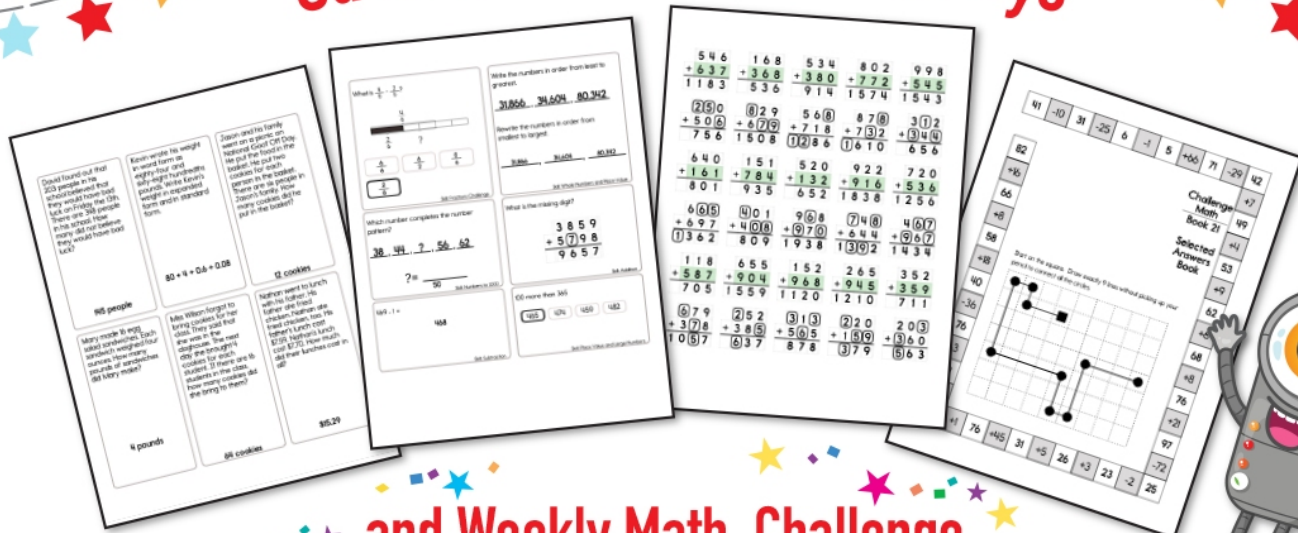
$$2 \times 55 \div 5$$

It was 5 degrees above zero in the morning. By afternoon the temperature rose 27 degrees. How warm was it?

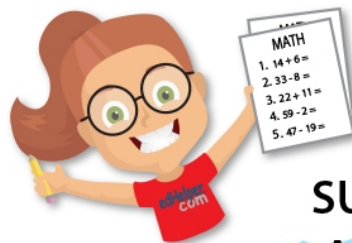
Write $\frac{2}{4}$ in lowest terms.

Round the decimal 0.745 to the nearest hundredth.

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