**Name:** _____

Change $\frac{1}{10}$ to a decimal.

Find 50% of 168.

Find 4% of 40.

Change to percents.

.76 =

.30 =

.02 =

.87 =

.39 =

.48 =

.08 =

.51 =

.25 =

Change to a percent and then to a fraction:

4% = . = _____

8% = . = _____

7% = . = _____

3% = . = _____

6% = . = _____

Change 35% to a decimal and a fraction expressed in its lowest terms.

Change $\frac{1}{2}$ to a decimal.

Change $\frac{58}{100}$ to a percent.

Change 15% to a decimal.

54 is what percent of 60?

Find 66% of 249.

Change 0.47 to a percent.

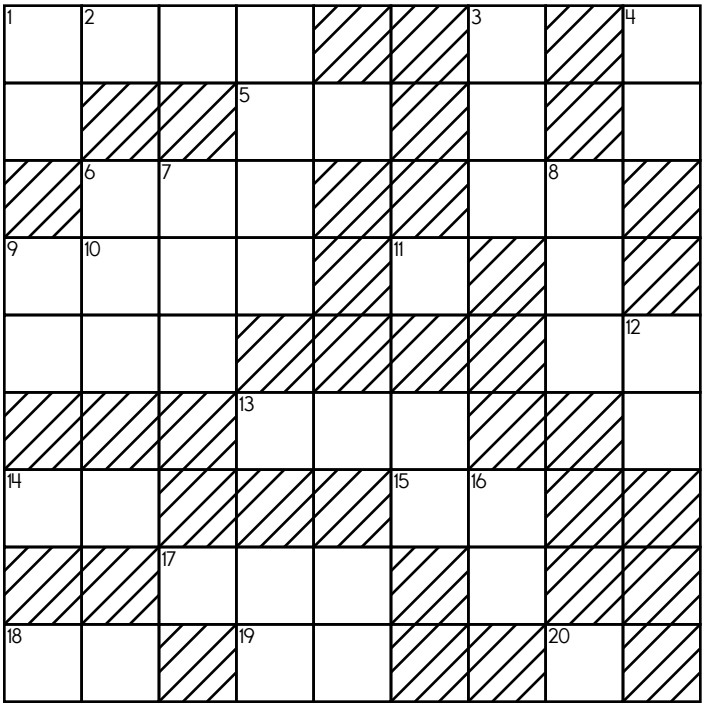
**Name:** _____

## ACROSS

2. 15-Across plus 16-Down
5. Four times 12-Down
6. Five more than 10-Across
10. Two less than 6-Down
13. Four times 4-Down
14. One-fourth of 6-Down
15. One-sixth of 5-Down
17. Nine times 9-Down
18. Nine more than 9-Down
19. Four more than 12-Down
20. One-fifth of 19-Across

## DOWN

1. One-eighth of 8-Down
3. Seven less than 5-Down
4. Six less than 14-Across
5. 10-Across plus 6-Down
6. **Nickels in eleven dollars**
7. Three less than 10-Across
8. 10-Across plus 5-Down
9. Five more than 19-Across
11. One-seventh of 4-Down
12. One-fifth of 14-Across
16. One-fifth of 17-Across



Fill in the missing letters. Write ou or ue.

| | | | |
|---|---|---|---|
| dialog_____ | q_____stion | c_____rage | sq_____eze |
| f_____ntain | c_____pon | _____tfit | arg_____ |

14 cm = _____ mm

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

_____

4 x 5 =

**Name:** _____

A wooden chest containing 80 bags of Stash tea can be purchased for $45. The same chest with 80 bags of Taylors of Harrogate tea bags sells for $58.72. An empty chest costs $26.95. What is the difference in the per bag price of the two tea brands?

Mr. Garcia, our teacher, rides his bicycle to school every day. It is 1.6 miles from his house to school. Write as a mixed number in lowest terms the total distance he rides getting to and from school each day.

Rewrite these numbers in order from least to greatest.

-7.6981 -7.091 -6.06 -7 -6

Hannah and Ava have a secret way of sending numbers to each other. Hannah drew a y-axis on the left of the paper and an x-axis on the bottom. Hannah plotted these points and wrote B (for the bottom number). Ava then found the secret coordinate. Draw a small grid to see if you can figure out the secret coordinate.

The points are (17, 12), (10, 6), (6, 9), and (8, 4).

word root **viv** can mean **life** **vivacious, vivid**

**Name:** _____

What number multiplied by -11 results in a product of -99? _____

Write the number that when multiplied by 12 is -48. _____

What is the area of a rectangle with sides 3 cm and 6 cm?

Round 84,475 to the nearest hundred.

What is 50% of 268?

D, H, L, P, _____, X

The diameter of a circle is 1,278 cm. What is the radius of this circle?

How many centimeters in 870.4 meters?

| | | |
|---|---|---|
| 33 ÷ 3 = _____ | 6,725 - 1,569 = _____ | 2 x 8 = _____ |

**Name:** _____

Give two answers for x in each equation.

$$|x + 12| = 5$$

$$|9 - x| = 2$$

Change to a percent.

$\frac{6}{10}$

Change to a fraction.
9%

Write as a percent.

$\frac{2}{15}$

It was 2 degrees above zero in the morning. By afternoon the temperature rose 15 degrees. How warm was it?

Round the decimal 0.565 to the nearest hundredth.

(117,649) , _____,
(2,401) , (343) , (49) ,
(7) , (1) , $\frac{1}{7}$, $\frac{1}{49}$, $\frac{1}{343}$

1 lb = 16 oz

14 lb = _____ oz

Circle the smallest number:

| | |
|---|---|
| 234,908,175 | 28,096 |
| 415,673 | 3,145,820,679 |

**Name:** _____

Erin bought three packages of Jell-O to use in a molded fruit salad. Each package cost $0.92. She also bought two cans of mixed fruit for $1.12 per can and some whipped topping for $1.57. What was the total cost of her purchases?

Maria is almost finished with her homework. She is going to reward herself with a strawberry parfait when she finishes. This is her last question: "What is the prime factorization of 66?" Answer the question for her.

Wendy wanted to make a chart illustrating the effects of static electricity. She used a sheet of poster board that was 18 inches wide and 36 inches long. She divided the poster board into six equal sections. What was the area of each section?

The product of two consecutive whole numbers is 182. What are the two consecutive whole numbers?

$$\begin{array}{r} 479 \\ +\ 480 \\ \hline \end{array}$$

10 x 11 = _____

12 x 6 = _____

$$\begin{array}{r} 59 \\ -\ 18 \\ \hline \end{array}$$

72 ÷ 12 = _____

$$\begin{array}{r} 887 \\ -\ 703 \\ \hline \end{array}$$

Can 465 be evenly divided by 12? Circle:
465 is evenly divisible by 12
465 is NOT evenly divisible by 12

$$\begin{array}{r} 21 \\ +\ 46 \\ \hline \end{array}$$

word root **bi** can mean **two** **bicycle, bifocals**

**Name:** _____

## Sudoku Sums of 16

Each row, column, and box must have the numbers 1 through 9.
Hint: Look for sudoku sums. The sum of the two boxes inside of the dashed lines is 16.

Here is an example of a sudoku sum of 16: | 4 | 12 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 3 | 5 | 8 | | | 7 | | | 4 |
| 2 | | | | | | | | 3 |
| | | | 6 | 3 | 8 | | 9 | |
| | | | 3 | | | | | 9 |
| 5 | 9 | | 4 | | | | 3 | |
| 7 | 2 | | 8 | 5 | | | | |
| 4 | 3 | | 1 | | | | 2 | |
| 6 | | | | | | | | 5 |
| | | | | | 5 | | 4 | |

66 ÷ 6 = _____

How many yards are in 18 feet?

_____ yards

12 x 5 =

7 x 7 = _____

Write 317,297 in words.

_____

**Name:** _____

In the number 36,851,847, the digit 6 is in what place?

_____

25 ÷ 5 = _____

Circle the addition property for 39 + 58 = 58 + 39.

associative property

commutative property

10 x 11 = _____

Holly and Amy are playing a number game.
Holly says 6. Amy replies that the answer is 36.
Holly says 1. Amy replies that the answer is 1.
Holly says 7. Amy replies that the answer is 49.
Holly says 9. Amy is thinking. What number should Amy reply with?

752 + 163 = _____

63 ÷ 9 =

56 ÷ 8 = _____

Maria took three numbers greater than 1 and multiplied them. One number was six and the other number was fourteen. Of course, she forgot the last number, but she remembered the product was 1092. Is this possible?

56 ÷ 7 =

56 ÷ 7 = _____

3 x 2 = _____

You have four digits to use in an addition problem: 2, 9, 3, and 6. Make up a problem where you have two 2-digit numbers. What is the largest sum you can make?

Four-sevenths of the children in Smith's class want to go outside. If Smith agrees with the majority, will the class stay inside or go outside?

20 ÷ 4 = _____

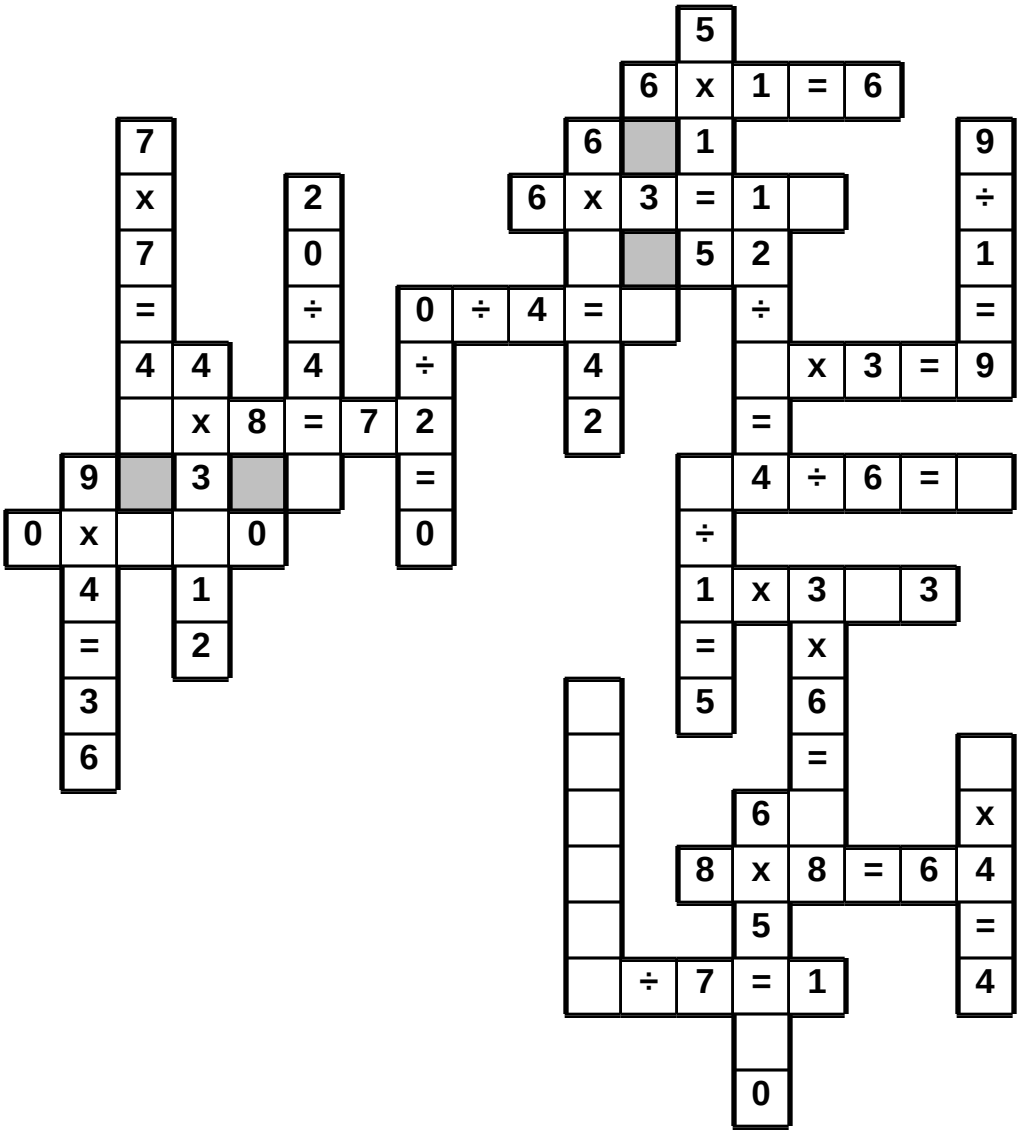
8 x 8 = _____

word root **manu** can mean **hand** **manual, manuscript**

**Name:** _____

8 • 7 • 0 • 3 • 9 • 5 • 5 • 9 • 2 • = • = • 5 • 6 • 1 • ÷ • 1
8 • = • 7 • 3

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




110 ÷ 10 = _____

Circle the digit in the hundredths place.

69.428

5 x 11 = _____

Write an equation to represent this:

The product of eight and seven is fifty-six.

_____

11 x 11 = _____

40 ÷ 4 = _____

word root **crit** can mean **judge or distinguish** **critic, criterion**

**Name:** _____

Daniel, Emma, Alexander, and Alexandra each completed their homework. One took forty-nine minutes, one took eighty minutes, one took seventy-eight minutes, and one took forty-six minutes to complete their homework.

How long did each person take to finish his or her homework?

1. Alexandra needed less than an hour to finish.
2. Daniel needed more time than Alexandra to finish.
3. Alexander started working at 2:31. Daniel started working sixteen minutes after Alexander and finished at 4:05.
4. Alexander needed more time than Alexandra to finish.
5. Alexander started working twenty-six minutes after Daniel and finished three minutes before Daniel.
6. Emma started on the assignment at 4:41 p.m. Emma took a forty-four minute break at 5:37 p.m. to eat dinner. Emma continued working after dinner and finished the assignment at 6:45 p.m.

Daniel took _____ to finish.

Emma took _____ to finish.

Alexander took _____ to finish.

Alexandra took _____ to finish.

10 x 3 = _____

40 ÷ 5 =

David took three numbers greater than 1 and multiplied them. One number was five and the other number was eighteen. Of course, he forgot the last number, but he remembered the product was 271. Is this possible?

12 ÷ 2 = _____

**Name:** _____



Draw an irregular shape with no straight lines. The shape should have an area that is about 9.9 square units. Color in the shape.

Jenna is learning about programming using variables and loops. She loves programming, and her program printed out a pattern that started like this:
25 31 37 43 49

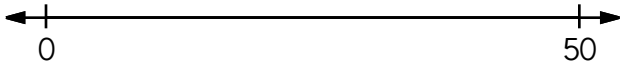
She describes this pattern by saying she assigned the number 25 to a variable. Then she increases the variable by 6 each time and prints it out. She lets the program run some more.

a. What would the 10th number be?

b. What would the 30th number be?

Amy put all her money in a safe. She also wanted to keep a record of the money in the safe without writing the actual amount. So she wrote x + 2390 = 2792. Now her little brother will never know the true amount!

Say you want to copy Amy. You have $704 saved, but you don't want anyone to know. Make up an equation so that no one (but you and other math geniuses) will know.




a. Show where 20 should go.

b. Show where 45 should go.

c. Show where 37 should go.

**Name:** _____

k + 19 = 23

k =

5 + z = 14

z =

Write an algebraic expression to

subtract 97 from r.

The sum of 23 and m is 41.

What is the value of m?

**Compare each pair of numbers or expressions using >, =, or <.**

-37 ◯ -34

513.3 ◯ 511.94

581,690 ◯ 758,301

-63 ◯ 60

15 ÷ 5 ◯ 5 ÷ 15

13 - y = 9

y =

s - 5 = 11

s =

Write an algebraic expression to

get the product of 7 and z.

The sum of 34 and k is 70.

What is the value of k?

Simplify 9y - 3y.

What is the value of the simplified equation when y = 6?

What is 5m + 51

when m = 4?

Simplify 3r + 9r.

What is the value of the simplified equation when r = 2?

**Name:** _____

Find the sum of 13, 19, and 30.

$$\begin{array}{r} 9{,}505 \\ -\quad 114 \\ \hline \end{array}$$

Subtract 53 from 694.

Find the difference between 544 and 140.

$$\begin{array}{r} 61 \\ +\ 87 \\ \hline \end{array}$$

$$\begin{array}{r} 60{,}562 \\ +\ 51{,}299 \\ \hline \end{array}$$

$$\begin{array}{r} 28 \\ \times\quad 2 \\ \hline \end{array}$$

$$\begin{array}{r} 31 \\ \times\ 17 \\ \hline \end{array}$$

$$\begin{array}{r} 238 \\ \times\quad 4 \\ \hline \end{array}$$

$17\overline{)8228}$

Divide and write remainder.

$4\overline{)2061}$

Divide and write remainder.

$8\overline{)801}$

Divide and write remainder.

**Name:** _____

The pencil factory was making boxes filled with pencils. They made six large boxes, each with lots of pencils, but they forgot to label how many pencils are in each box. Anna was in charge of the boxes. She wrote z on each box.

| | | | | | |
|---|---|---|---|---|---|
| z | z | z | z | z | z |

If z represents the number of pencils in each box, then how many pencils are there altogether?

z + z + z + z + z + z = _____

Amanda wrote the following program. She remembered to use * for multiplication in her code. Her program takes a given value of r and then it calculates the value for 15r - 35 + 5r + 30.

```
r = 2
answer = 15 * r - 35 + 5 * r + 30
print("When r is ",r," the answer is ",answer)
```

When this program is run, what will be printed to the screen?

r + r - 4 + 9 =

m + m + m + 3 - m =

15s - 9s + 16 =

28k - 15k + 24k + 6k =

61,102y - 712y =

Hunter wrote the following program. He remembered to use * for multiplication in his code.

```
s = 2
m = 4 * s
print("Four times s is eight")
print("The value of m is ", m)
```

When this program is run, what will be printed to the screen?

**Name:** _____

Write as a decimal.
One tenth

Write as a decimal.
Eight thousandths

Write as a decimal.
Two and four tenths

Write the decimal in words.
0.1

Write as a decimal.

$\frac{3}{100}$

Write as a decimal.
Twelve and forty-three hundredths

$$\begin{array}{r} 0.8 \\ 0.3 \\ +0.7 \\ \hline \end{array}$$

$$\begin{array}{r} 6.97 \\ +3.86 \\ \hline \end{array}$$

$$\begin{array}{r} 6.2 \\ -4.82 \\ \hline \end{array}$$

$$\begin{array}{r} 8.8 \\ \times \quad 6 \\ \hline \end{array}$$

$$\begin{array}{r} 4.1 \\ \times \quad 70 \\ \hline \end{array}$$

$$9\overline{)74.7}$$

**Name:** _____

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

A

| | | | |
|---|---|---|---|
| - | 63 | 62 | 17 |
| | 70 | 15 | 74 |
| | 54 | 44 | 68 |
| | 41 | 97 | 9 |

Find a subtraction fact.

B

| | | | |
|---|---|---|---|
| - | 27 | 29 | 64 |
| | 58 | 35 | 57 |
| | 12 | 33 | 43 |
| | 88 | 48 | 26 |

Find a subtraction fact.

C

| | | | |
|---|---|---|---|
| - | 53 | 2 | 29 |
| | 64 | 68 | 47 |
| | 65 | 63 | 59 |
| | 78 | 58 | 98 |

Find a subtraction fact.

**Equations:**
Write the equation facts you found.

| | | | | | |
|---|---|---|---|---|---|
| A | 63 | - | | = | |
| B | | - | | = | |
| C | | - | | = | |

Can 557 be evenly divided by 4? Circle:
557 is NOT evenly divisible by 4
557 is evenly divisible by 4

252 + 256 = _____

What time is 17 hours after 2:00 a.m.?

_____

24 ÷ 8 = _____

**Name:** _____

The students chosen for the class play were posted. All of the students in the play are in Mrs. Robinson's class and were born in months with exactly 31 days. For each student, write whether they are in the play, might be in the play, or are not in the play.

Connor is in Mrs. Robinson's class and was born on March 21.

David is in Mrs. Robinson's class and was born on June 12.

Sarah is in Mrs. Robinson's class and was born on May 24.

Sara is in Mr. Harris' class and was born on April 15.

Megan is in Mrs. Clark's class and was born on November 13.

Eric has a large collection of nickels, dimes, and quarters. He only wants to keep his quarters, so he gave away his nickels and dimes to his 3 friends. He gave $13 to Adam, $12.95 to Justin, and $10.73 to Hunter. Wait! One of those amounts he counted is wrong. Which of the amounts did he count wrong and how do you know?

Jack has 7 one-dollar bills, 12 five-dollar bills, 12 ten-dollar bills, and 10 twenty-dollar bills. He wants to pay a bill of $267 at the grocery store and get no change. Which bills should he give the cashier?

Anne is writing a computer program. In her program she made a pattern where she repeatedly is assigning numbers to colors.

The pattern is:
green, purple, orange, purple, purple.

Her program starts assigning numbers to colors like this:
15 = green, 16 = purple, 17 = orange,
18 = purple, 19 = purple, 20 = green,
21 = purple, 22 = orange, 23 = purple,
24 = purple, 25 = green, 26 = purple,
27 = orange, 28 = purple, 29 = purple

The program keeps running through the numbers.
When it gets to 36, it prints 36 = purple,

followed by 37 = _____.

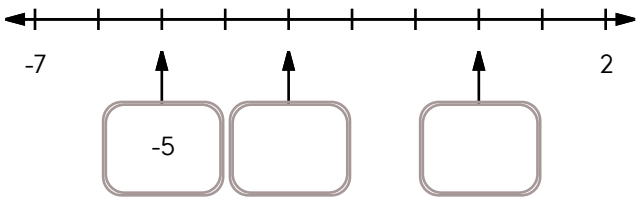
**Name:** _____

Use mental math to quickly solve.

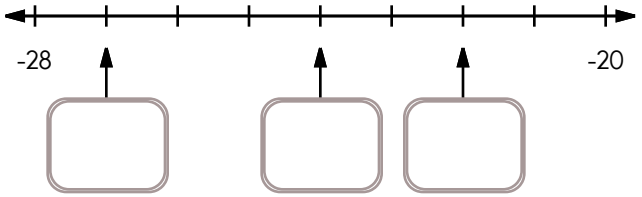
| | |
|---|---|
| 35.47 ÷ 10 = _____ | 0.58 ÷ 10 = _____ |
| 72.49 ÷ 10 = _____ | 0.29 ÷ 10 = _____ |
| 3,123.3 ÷ 100 = _____ | 6,935.7 ÷ 100 = _____ |
| 54.16 ÷ 10 = _____ | 2,219.3 ÷ 100 = _____ |
| 0.321 ÷ _____ = 0.0321 | 76.6 ÷ _____ = 0.766 |
| 64.9 ÷ 100 = _____ | 0.556 ÷ _____ = 0.0556 |
| 581.1 ÷ 100 = _____ | _____ ÷ 10 = 2.416 |

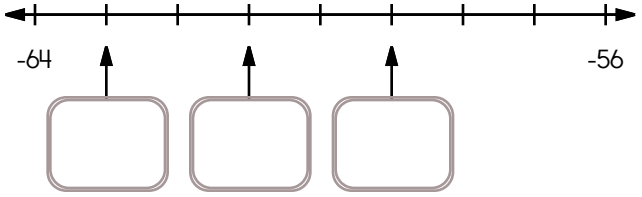
$3\overline{)2.7}$ $2\overline{)8.0}$ $4\overline{)4.8}$

**Name:** _____




Fill in the missing values to complete each number line.




**Write a positive or negative number for each.**

15 °C above zero

5 °C below zero

10 °C below zero

You had 10 points in a game and then you won 15 points. How many points do you have?

**Write the opposite of each number.**

| | | |
|---|---|---|
| -10 | 6 | -293 |
| 1,345 | 820 | -809 |

**Complete each inequality using >, =, or <.**

-10 ◯ -5 -4 ◯ 17

39.2 ◯ 40.3 -75.3 ◯ -43.4

-80.6 ◯ 55.5 -43.7 ◯ 80.5

**Write the smallest number.**

-4.11, -900, -3, 7, 8, -946, 175, -227.3, -0, 854.14, 424, -1.06, -529.2, -726

**Write the largest number.**

740, -3, 9, -386, 8.02, -335, 5.13, 4, 2.08, 306.41, 818.8, 854, 7, 963

**Write the smallest number.**

9.07, -6, -2, -868, 443.1, -521.31, 706.77, 5.4, 3, -8, -7, -4, 955, 0

**Name:** _____

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

| | | | |
|---|---|---|---|
| 34% of 50 | 10% of 170 | 88% of 100 | 51% of 100 |
| 30% of 90 | 36% of 75 | 31% of 100 | 62% of 50 |
| 78% of 100 | 90% of 190 | 34% of 150 | 50% of 68 |
| 95% of 180 | 40% of 195 | 34% of 100 | 50% of 176 |

Change $\frac{3}{4}$ to a decimal.

$4\overline{)3.2}$

Change $\frac{4}{5}$ to a decimal.

p - $59 = $38
What is the value of p?

If a = 3 and b = 7,
then
3a + b =

$\frac{4}{9} \div \frac{22}{36} =$

9 x 49 ÷ 7 - 45 ÷ 9 =

0.6 (0.9 (0.6 x 7)) =

0.10 • 3 =

Simplify.

$\frac{27}{63} =$

0.4 (0.2 (0.4 + 4)) =

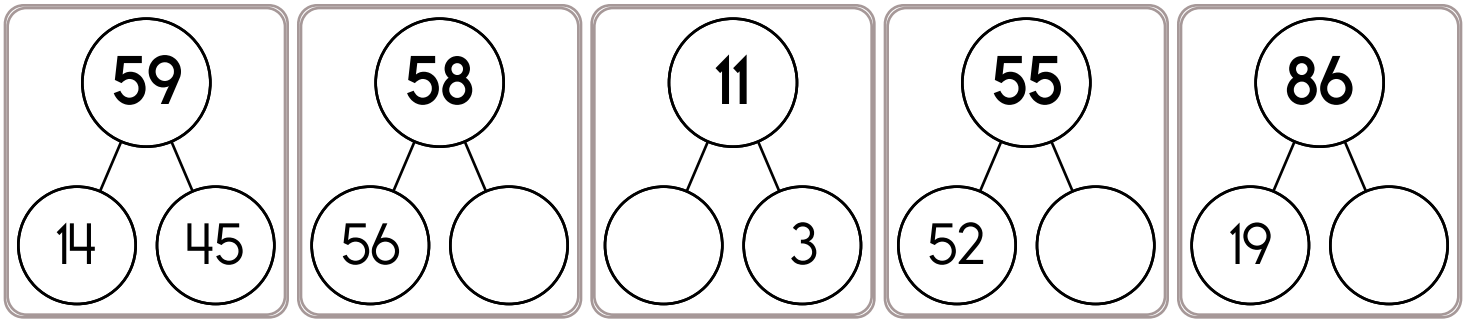
9 + 6 x 6 - 8 + 7

**Name:** _____

Get a fidget spinner! Spin it.

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

| | | | | |
|---|---|---|---|---|
| 7 + 5 = _____ | 5 + 3 = _____ | 9 + 6 = _____ | 4 + 8 = _____ | 8 + 7 = _____ |
| 5 + 7 = _____ | 7 + 8 = _____ | 4 + 3 = _____ | 8 + 6 = _____ | 4 + 7 = _____ |
| 8 + 5 = _____ | 7 + 5 = _____ | 9 + 8 = _____ | 8 + 9 = _____ | 9 + 9 = _____ |
| 5 + 8 = _____ | 7 + 9 = _____ | 9 + 5 = _____ | 7 + 3 = _____ | 7 + 4 = _____ |




| | | | | |
|---|---|---|---|---|
| 14 + 8 = _____ | 78 + 4 = _____ | 47 + 6 = _____ | 37 + 8 = _____ | 28 + 8 = _____ |
| 68 + 5 = _____ | 59 + 4 = _____ | 74 + 3 = _____ | 24 + 4 = _____ | 66 + 5 = _____ |
| 43 + 7 = _____ | 14 + 8 = _____ | 38 + 4 = _____ | 55 + 8 = _____ | 33 + 9 = _____ |
| 16 + 3 = _____ | 48 + 6 = _____ | 76 + 8 = _____ | 27 + 9 = _____ | 53 + 8 = _____ |
| 64 + 9 = _____ | 48 + 5 = _____ | 69 + 3 = _____ | 58 + 6 = _____ | 78 + 9 = _____ |
| 34 + 7 = _____ | 13 + 4 = _____ | 23 + 3 = _____ | 35 + 7 = _____ | 43 + 5 = _____ |
| 75 + 3 = _____ | 69 + 5 = _____ | 57 + 4 = _____ | 23 + 6 = _____ | 14 + 3 = _____ |
| 18 + 7 = _____ | 47 + 5 = _____ | 76 + 9 = _____ | 65 + 9 = _____ | 23 + 9 = _____ |
| 33 + 9 = _____ | 73 + 6 = _____ | 26 + 9 = _____ | 47 + 5 = _____ | 15 + 6 = _____ |
| 66 + 4 = _____ | 54 + 3 = _____ | 43 + 5 = _____ | 25 + 8 = _____ | 78 + 7 = _____ |
| 65 + 7 = _____ | 17 + 4 = _____ | 57 + 7 = _____ | 33 + 4 = _____ | 79 + 3 = _____ |

**Name:** _____

Devin, Hannah, Jason, and Abigail each went on vacation with their father (Michael, Nicholas, Jacob, and Matthew). They each traveled to a different country (India, Spain, Singapore, and Estonia).

Figure out each person's father and the country they visited.

1. Hannah's trip was to a different continent than Nicholas' trip.
2. Abigail's trip was to a different continent than either Jacob's or Michael's trip.
3. Before the vacation, Jason and Hannah saw Abigail's dad, Matthew, at the mall.
4. Nicholas did not go to India.
5. Jason did not go to India.
6. Jacob went to either Singapore or Spain.
7. Michael went to either Europe or Asia.
8. Michael and Jacob went on vacation to the same continent.
9. Nicholas did not go to Spain.
10. Abigail did not go to Estonia.
11. Jason went to either Asia or Europe.
12. Before the vacation, Hannah and Jason saw Devin's dad, Jacob, at the mall.
13. Matthew went to either India or Singapore.
14. Devin's trip was to a different continent than Nicholas' trip.
15. Nicholas and Matthew went on vacation to the same continent.
16. Hannah went to either Singapore or Estonia.

Devin's father's name is _____. They went on vacation to _____.

Hannah's father's name is _____. They went on vacation to _____.

Jason's father's name is _____. They went on vacation to _____.

Abigail's father's name is _____. They went on vacation to _____.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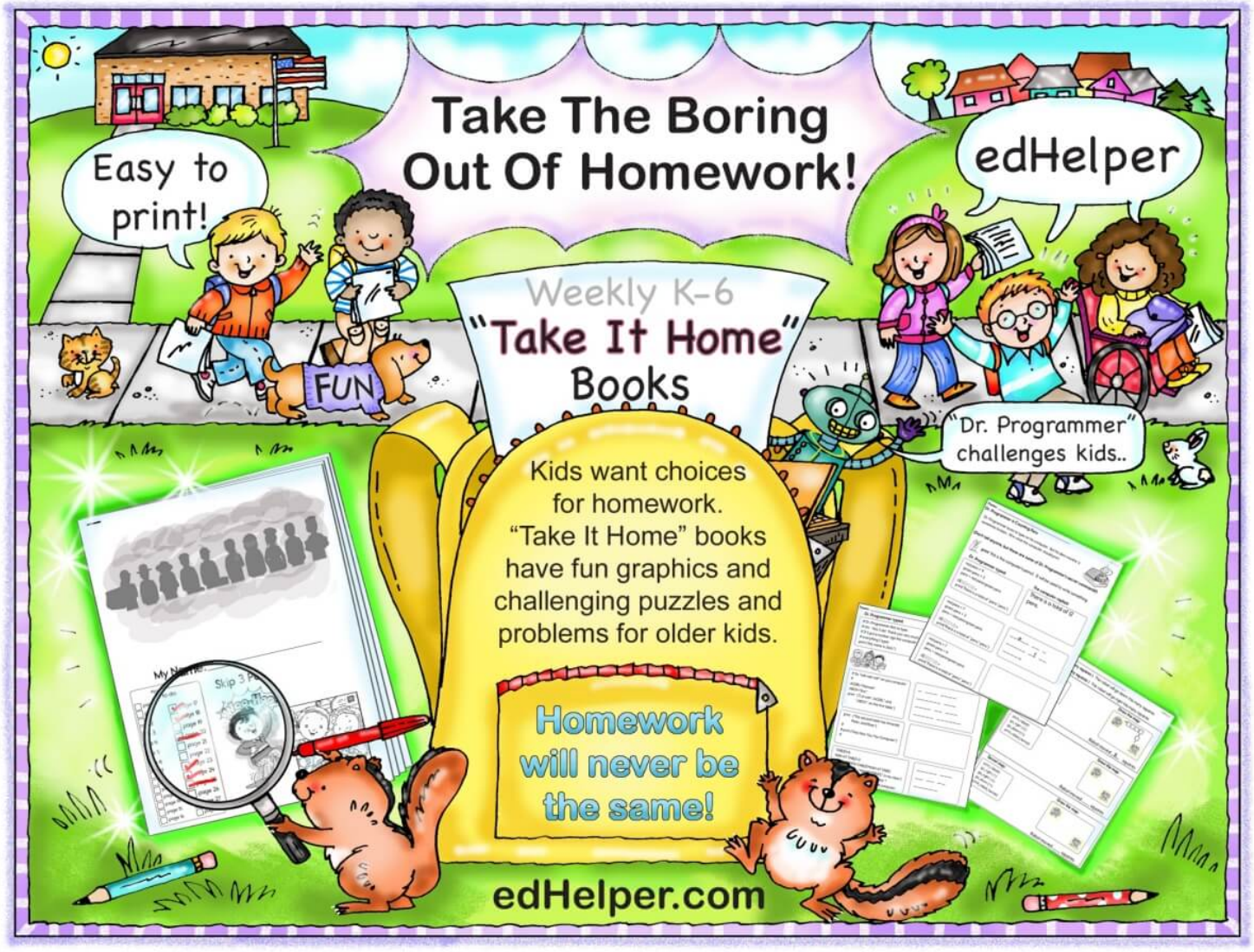
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