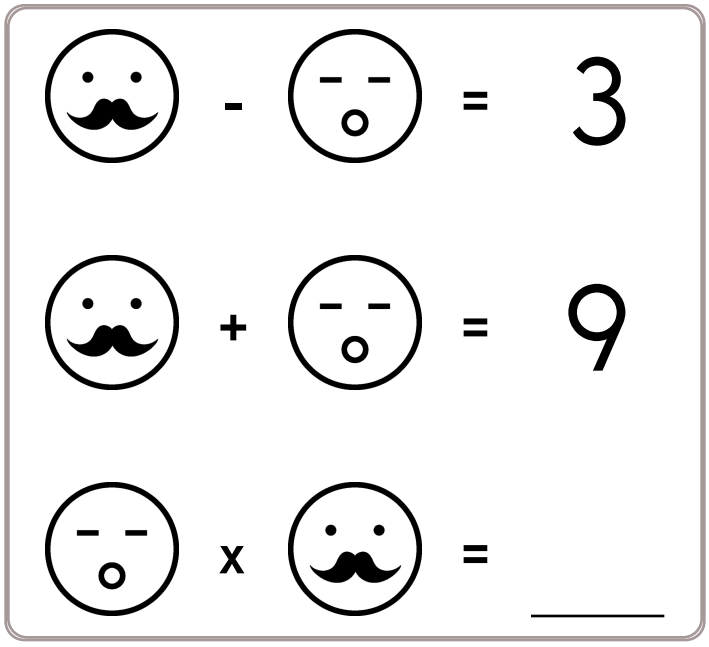
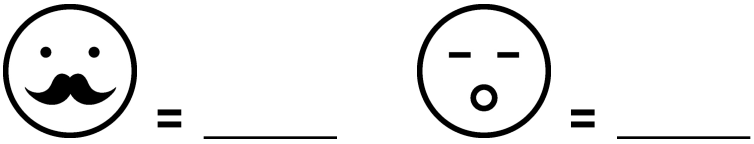
**Name:** _____

Guess the number in your head. Keep guessing until your numbers are correct.

Then write the correct answer!



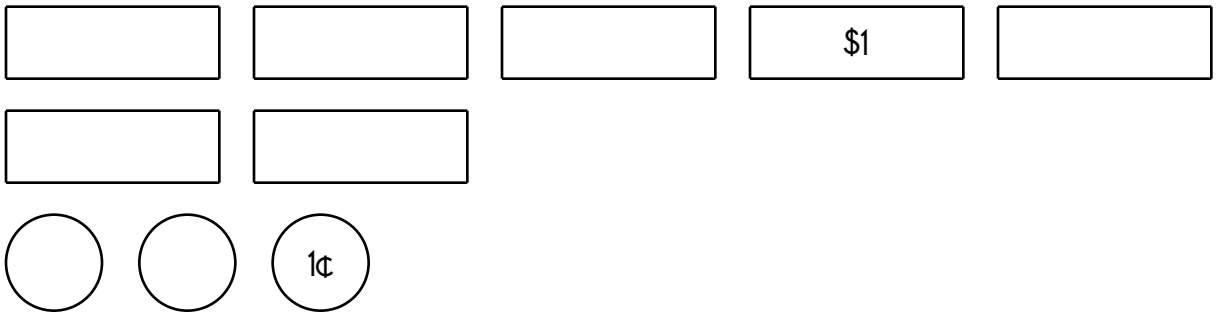




| | | |
|---|---|---|
| 9 before 18 _____ | 4 after 12 _____ | 8 after 14 _____ |
| 1 before 11 _____ | 2 after 19 _____ | 1 after 15 _____ |
| 5 before 15 _____ | 3 after 16 _____ | 9 after 17 _____ |
| 2 before 19 _____ | 5 after 11 _____ | 7 after 18 _____ |
| 7 before 13 _____ | 6 after 13 _____ | 8 after 11 _____ |
| 3 before 92 _____ | 6 after 84 _____ | 9 after 32 _____ |
| 8 before 91 _____ | 2 after 43 _____ | 1 after 50 _____ |
| 4 before 46 _____ | 3 after 73 _____ | 4 after 22 _____ |
| 6 before 20 _____ | 5 after 64 _____ | 7 after 46 _____ |

**Name:** _____

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

Bill has $35.31. He has 7 bills and 3 coins. How?




Pam has $61.27. She has 7 bills and 3 coins. How?

Bill has $46.51. He has 4 bills and 5 coins. How?

Pam has $83.12. She has 9 bills and 8 coins. How?

**Name:** _____

Reduce $\frac{8}{32}$ to its lowest terms.

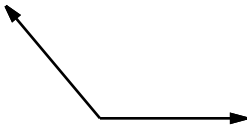
$10 - \frac{3}{4} - \frac{1}{9} =$

$12 + \frac{5}{7} - \frac{1}{2} =$

$\frac{70}{N} = 7$

$5m = 20$

$\frac{N}{41} = 42$



What kind of angle is this?

Sketch 2 lines $\overleftrightarrow{IJ}$ and $\overleftrightarrow{WX}$ that are perpendicular.

$$\begin{array}{r} 6.7 \\ 12.1 \\ +\ 1.7 \\ \hline \end{array}$$

What is the sum of 9.5 and 7.7?

$$\begin{array}{r} 8.1 \\ -\ 7.51 \\ \hline \end{array}$$

$8 + m = 39$

What is the least common multiple of 10 and 12?

What is the least common multiple of 11 and 12?

**Name:** _____

$$\begin{array}{r} 162 \\ \times\ 30 \\ \hline \end{array}$$

$$\begin{array}{r} 65 \\ \times\ 3 \\ \hline \end{array}$$

$$\begin{array}{r} 49 \\ \times\ 3 \\ \hline \end{array}$$

4 + 6 + 7 + 8 + 1 =

$$\begin{array}{r} 80 \\ +\ 50 \\ \hline \end{array}$$

$$\begin{array}{r} 5{,}299{,}683 \\ -\ 538{,}392 \\ \hline \end{array}$$

What kind of angle has a measure of between 90° and 180°?

Sketch a right angle named $\angle DEF$.

An angle measures 169°. What would you call this angle?

What is the number that is 5 less than 3?

Rewrite 8 - 1

____ + ____ = ____

What is the number that is 5 less than 4?

Write as a decimal.

$10\frac{6}{10}$

Write as a decimal.
Eight thousandths

Write as a decimal.

$5\frac{2}{10}$

**Name:** _____

Justin bought a new car. He found out that insurance on the car would cost him $264.70 for a year. If he wants to add collision insurance, it will cost an extra $11.49 per month. What will the yearly cost for Justin's car be, if he adds collision insurance?

During the month of Ramadan, Muslims fast from sunrise to sunset. In New York City, the sun will rise at 7:13 a.m. and set at 6:40 p.m. on October 16. How long will the Muslims in New York City fast on that day?

The average person in the United States consumes 4.8 kg of chocolate every year. Hunter eats 3 oz of chocolate every day. How many more pounds of chocolate per year does Hunter eat than the average? (1 kg = 2.2 lb)

$$\begin{array}{r} 74 \\ -\ 38 \\ \hline \end{array}$$

96,262 + 13,822 = _____

55 ÷ 11 =

81 ÷ 9 = _____

$$\begin{array}{r} 20 \\ +\ 39 \\ \hline \end{array}$$

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

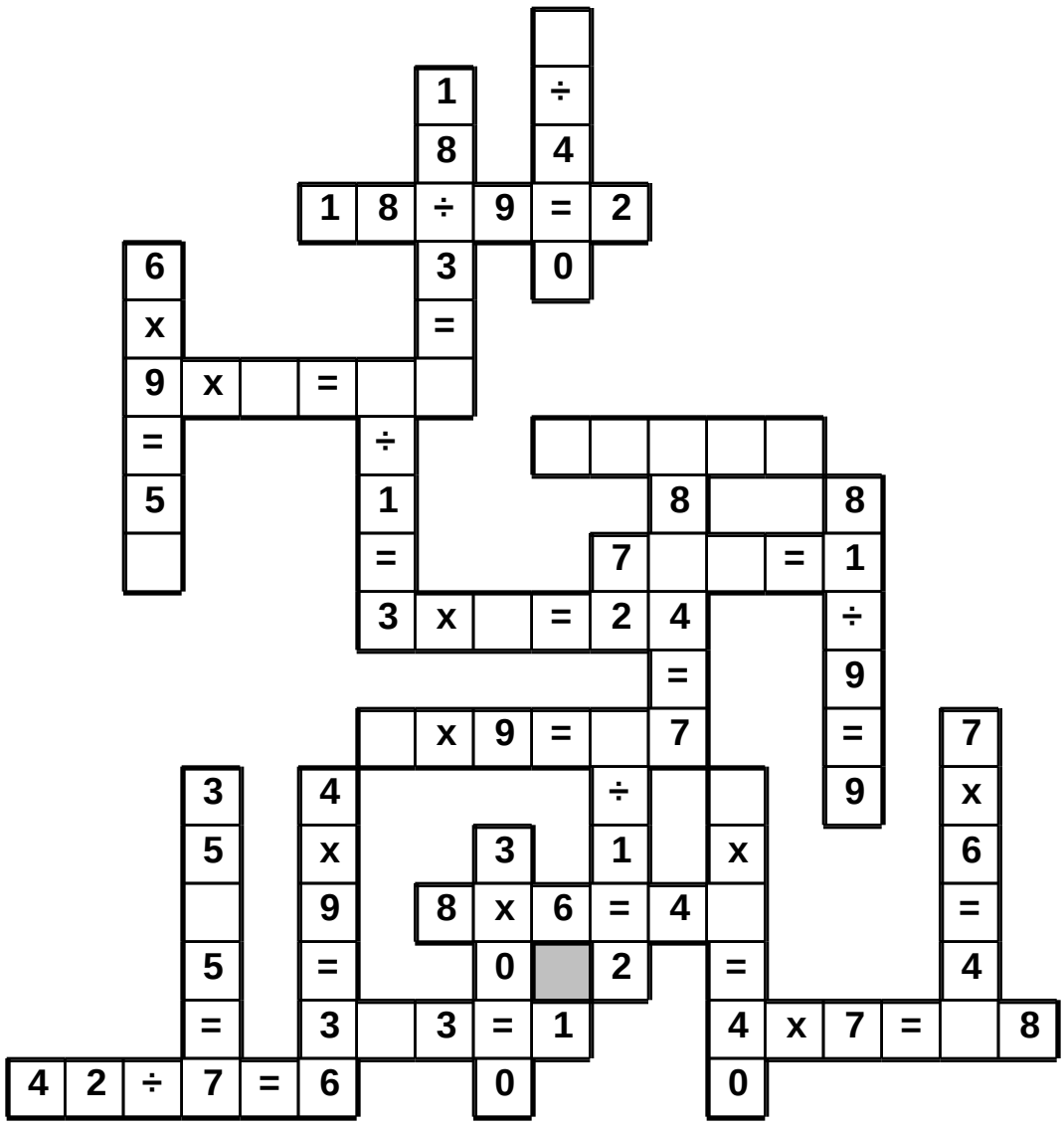
$$\begin{array}{r} 301 \\ +\ 482 \\ \hline \end{array}$$

$$\begin{array}{r} 288 \\ -\ 235 \\ \hline \end{array}$$

**Name:** _____

0 • 4 • 3 • 6 • 0 • ÷ • 2 • = • 0 • 4 • ÷ • 7 • 8 • 3 • 2 • 5 ÷ • 8 • ÷ • 2

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




1 kg = 1,000 g

29 kg = _____ g

2 x 12 = _____

25 lb = _____ oz

45 ÷ 5 =

6 x 7 = _____

Four books cost $16. At that rate, what is the cost of 16 books?

**Name:** _____

How many grams are in 6 kilograms?

_____ grams

84,777 - 11,274 = _____

Write 5,494 in words.

_____

63 ÷ 9 = _____

Here is a pattern of letters:

R R P R R P R R P R R . . .

What letter will be the 28th term in the pattern?

Can 478 be evenly divided by 5? Circle:
478 is evenly divisible by 5
478 is NOT evenly divisible by 5

70 ÷ 7 = _____

3 x 9 = _____

Can 504 be evenly divided by 12? Circle:
504 is evenly divisible by 12
504 is NOT evenly divisible by 12

24 ÷ 2 = _____

6 x 5 =

The letters B and O each have a line of symmetry. Name another letter between B and O that has a line of symmetry.

_____

Megan rolls two dice. She adds the numbers on the two dice. What is the chance of this sum being three?

8 x 7 = _____

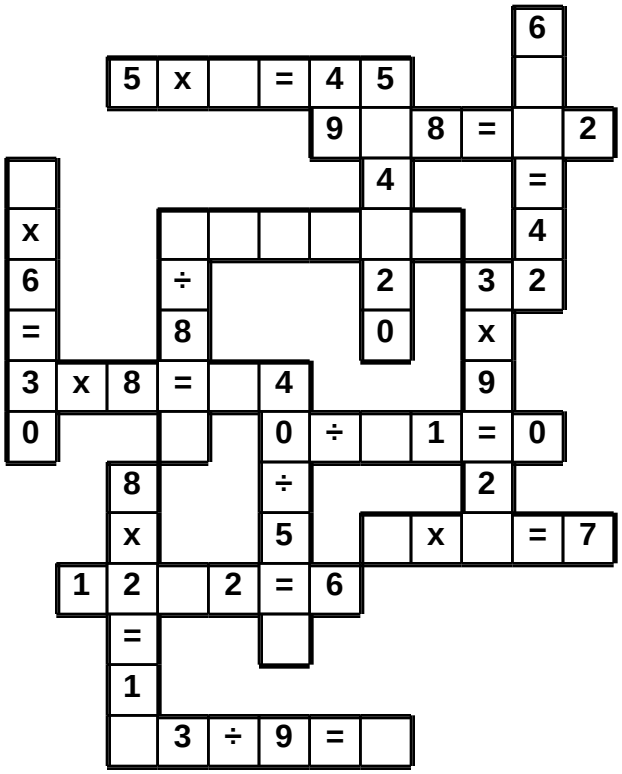
939 - 757 = _____

15,236 + 12,544 = _____

**Name:** _____

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

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




Rosa and her little sister, Amanda, both have birthdays on the same day. Rosa is eleven years old. Amanda is nine years old. Did you know that Rosa was once double the age of Amanda? How many years ago was that?

3 x 2 = _____

2 x 11 = _____

In the number 33,832,517, the digit 8 is in what place?

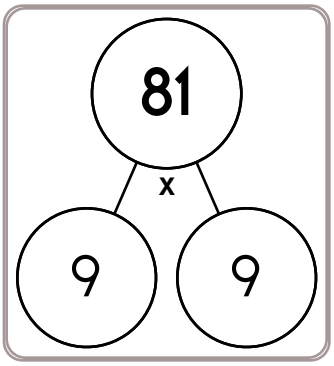
_____

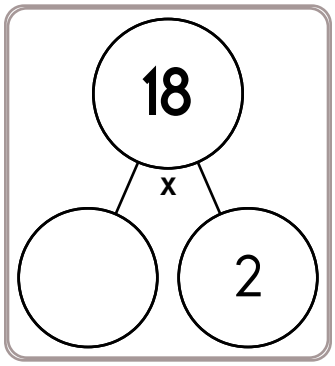
3 x 5 = _____

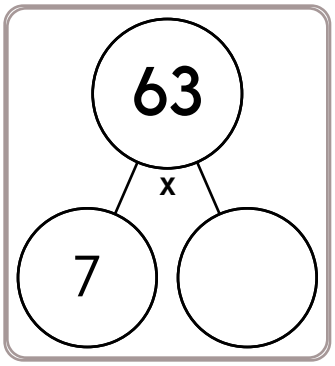
48 ÷ 12 = _____

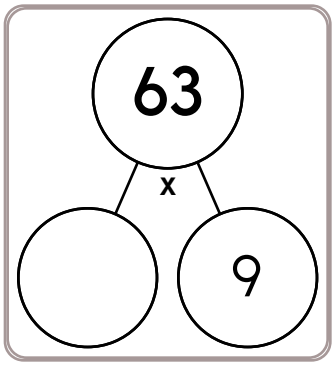
**Name:** _____

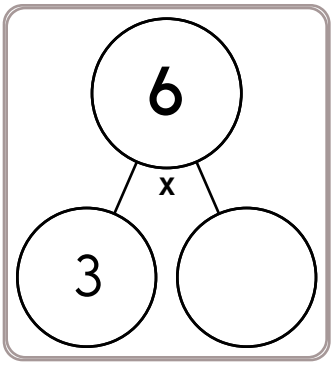
| | |
|---|---|
| 192 ÷ 6 = | 198 ÷ 2 = |
| 612 ÷ 68 = | 435 ÷ 5 = |
| 592 ÷ 8 = | 602 ÷ 7 = |
| 783 ÷ 9 = | 92 ÷ 2 = |

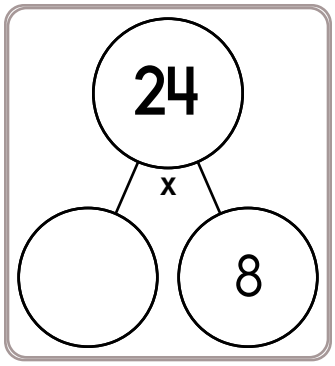


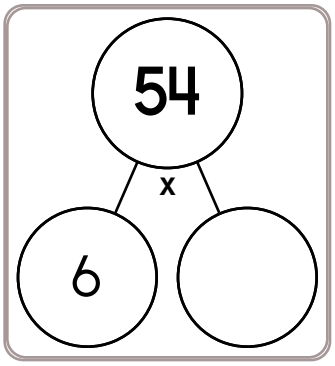



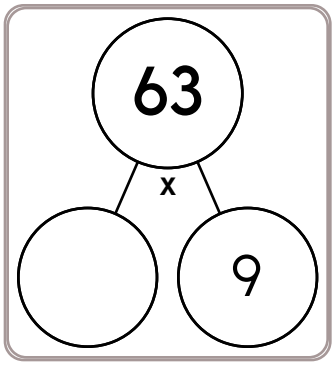



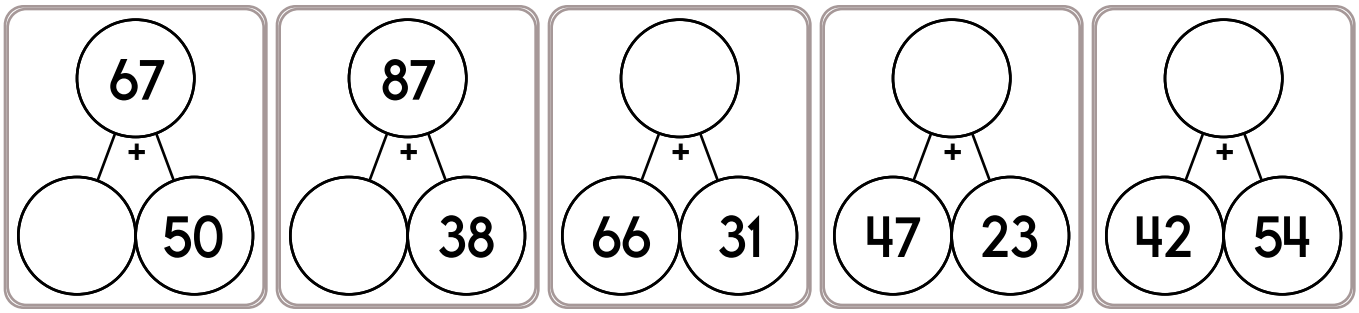



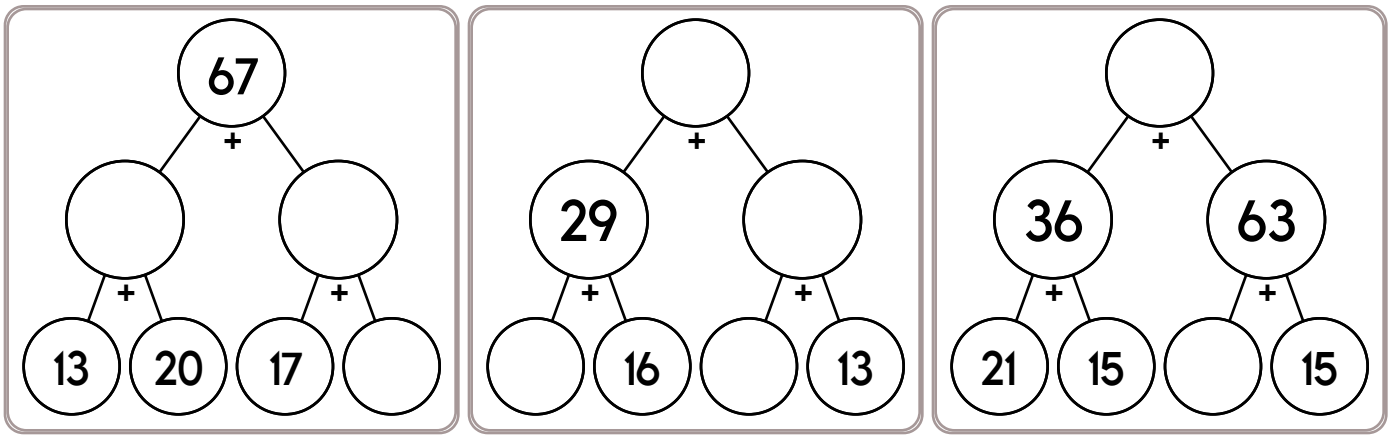



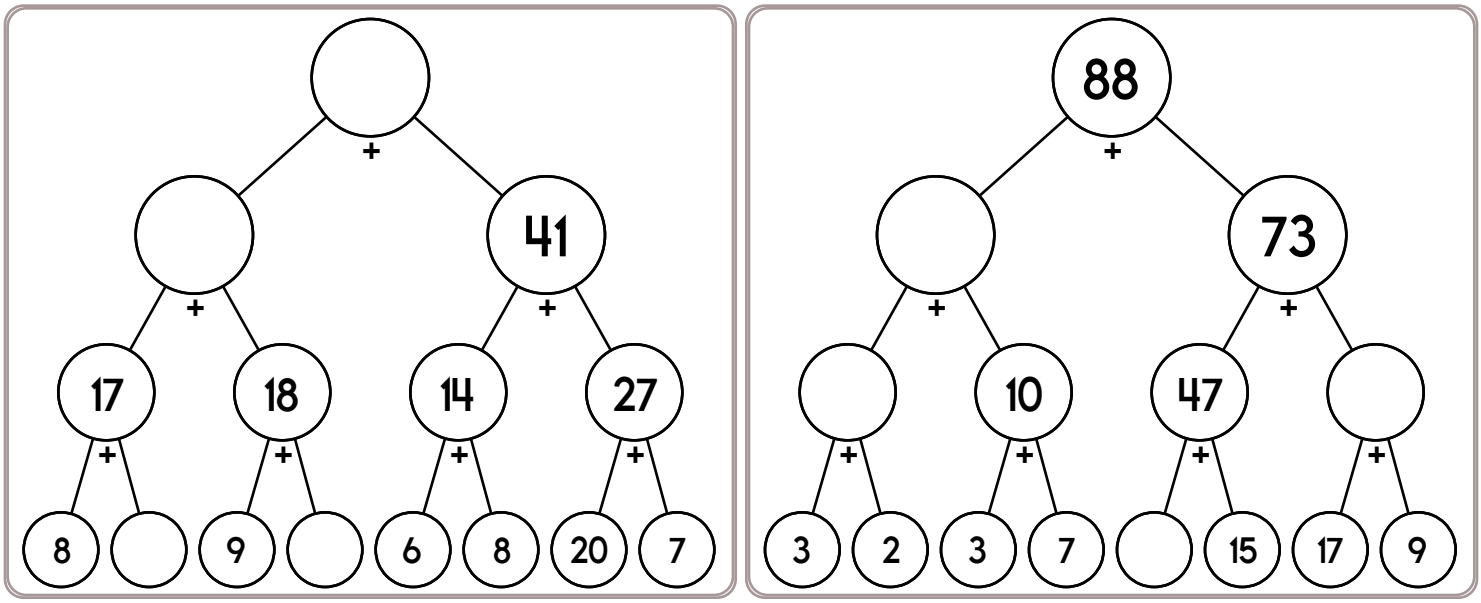




$12\overline{)60}$ $9\overline{)27}$ $9\overline{)99}$ $9\overline{)108}$

**Name:** _____




Change to a percent.

$\frac{541}{100}$

$\frac{14}{21} = \frac{?}{3}$

Find 7% of 71.

word root **rhodo** can mean **rose** **rhododendron**

**Name:** _____

Add mentally.

0.7 + 0.4

0.9 + 5

0.6 + 0.12

0.3 + 0.03

0.2 + 0.8

0.11 + 0.9

2 ÷ 0.4

7 ÷ 0.7

18 ÷ 0.9

4 ÷ 0.5

63 ÷ 0.9

0.2 ÷ 0.5

0.21 ÷ 0.3

8 ÷ 0.1

0.3 ÷ 0.5

0.09 ÷ 0.1

**Name:** _____

Connor took a big bowl from the kitchen to see what kind of fun party mix he could create. He added $2\frac{1}{3}$ cups of Cheerios, $\frac{1}{2}$ cup of Goldfish crackers, $\frac{5}{6}$ cup of raisins, and $\frac{3}{5}$ cup of pretzels. How many cups of food are now in the bowl?

In each group, use 4 of the numbers to make a proportion.

| | | | | | |
|---|---|---|---|---|---|
| 12 | 99 | 55 | 45 | 81 | 39 |
| 36 | 10 | 18 | 25 | 4 | 10 |

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 600 mph. How far will it go in 15 minutes? Round your answer to the nearest mile.

**Name:** _____

**Write an algebraic expression for each statement.**

y more than 3,390

Subtract 7,883 from k

z less than 3

m groups of 6

Sum of s and 17

Here is a small program.

```
b = 85
x = b - 7
print("7 less than b is ", x, ".")
```

When this program runs, it will print this to the screen:

**7 less than b is 78.**

What will this program print to the screen?

```
x = 48
y = 53 - x
print("x less than 53 is ", y, ".")
```

Rosa wrote the following program to print how old Hannah is.

```
April = 9
Hannah = April + 1
print("How old is Hannah? She is ",
      Hannah," years old.")
```

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

She also wrote this program. What does this program print?

```
r = 4
y = 17 + r
print("r more than 17 is ", y)
```

Now that you've seen small programs, can you code one?

Write a program to find the sum of 577 and the variable x. Give the value of 48 to x. Print the sum.

**Name:** _____

Puzzle:

| | | | | | |
|---|---|---|---|---|---|
| | | 1 | | | 28 |
| | 1 | | | 1 | 23 |
| | | 1 | 1 | | 13 |
| | | | | | 31 |
| | | | | 1 | 11 |
| 26 | 15 | 23 | 23 | 19 | + |

Work Area:

| | | | | | |
|---|---|---|---|---|---|
| | | 1 | | | 28 |
| | 1 | | | 1 | 23 |
| | | 1 | 1 | | 13 |
| | | | | | 31 |
| | | | | 1 | 11 |
| 26 | 15 | 23 | 23 | 19 | + |

The sum for each column and row is given.

= _____ = _____ = _____

= _____ = _____

1 x 12 + 8 - 2 x 9

Simplify.

$\frac{92}{138}$ =

$\frac{3}{6} \times \frac{5}{6}$

Simplify.

$\frac{28{,}800}{33{,}600}$ =

What is the greatest common factor of the numbers 135 and 60?

$8 \times 8 \times 8 \times 8 \times 8 = Z^y$

What is the value of Z and y?

**Name:** _____

| | | |
|---|---|---|
| -6 + -14 = | -5 - 3 = | 48 ÷ -6 = |
| 3 x -8 = | 9 + -5 = | -6 + -8 = |
| -7 - 3 = | -7 + -4 = | -6 + 3 = |
| -10 ÷ -1 = | -3 x 8 = | 4 - 9 - 1 = |
| $\frac{21}{-3}$ = | -3 - 4 - 1 = | 12 + -8 = |

**Name:** _____

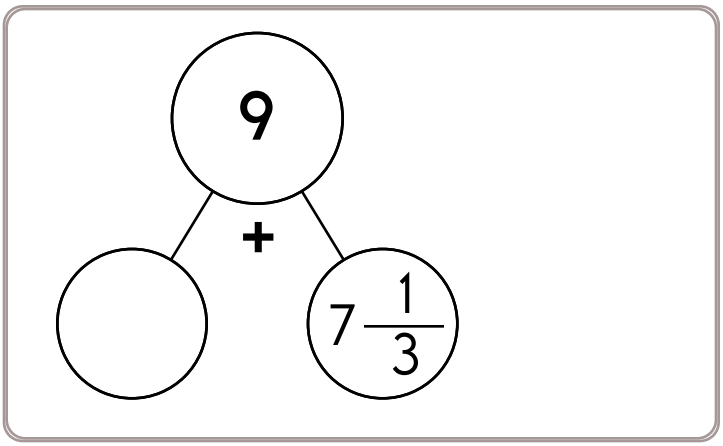
Use mental math to quickly solve.

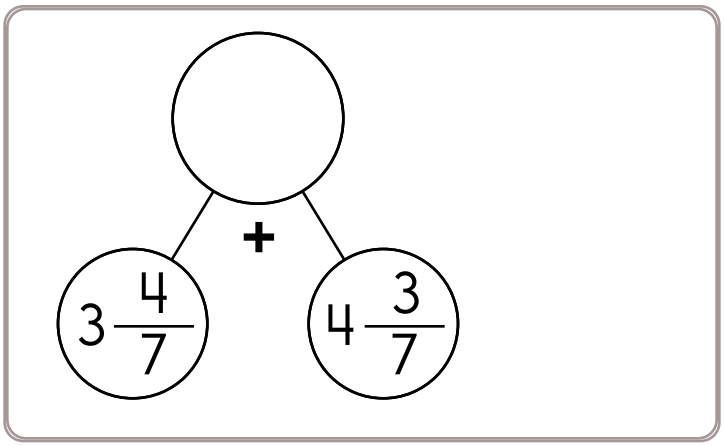
| | |
|---|---|
| 13.58 ÷ 10 = _____ | 0.97 ÷ 10 = _____ |
| 0.33 ÷ 10 = _____ | 34.53 ÷ 10 = _____ |
| 950.7 ÷ 100 = _____ | 620.5 ÷ 100 = _____ |
| 56.4 ÷ 100 = _____ | 0.883 ÷ 10 = _____ |
| 84.78 ÷ _____ = 8.478 | 34.6 ÷ _____ = 0.346 |
| 0.215 ÷ _____ = 0.0215 | 92.81 ÷ 10 = _____ |
| 674.1 ÷ _____ = 6.741 | 7,129.2 ÷ 100 = _____ |

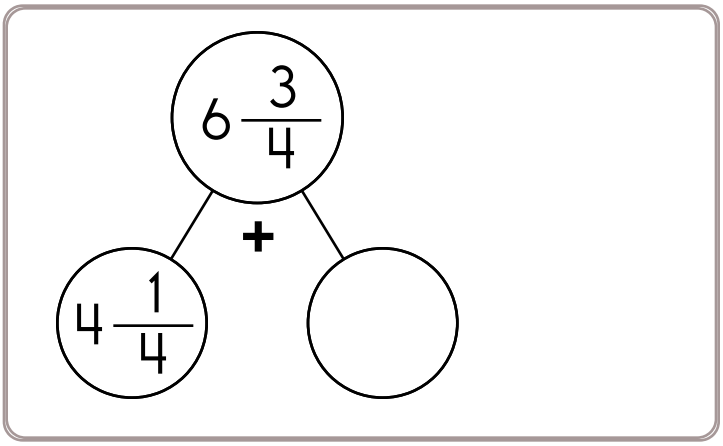
$2\overline{)1.6}$ $3\overline{)8.7}$ $4\overline{)4.8}$

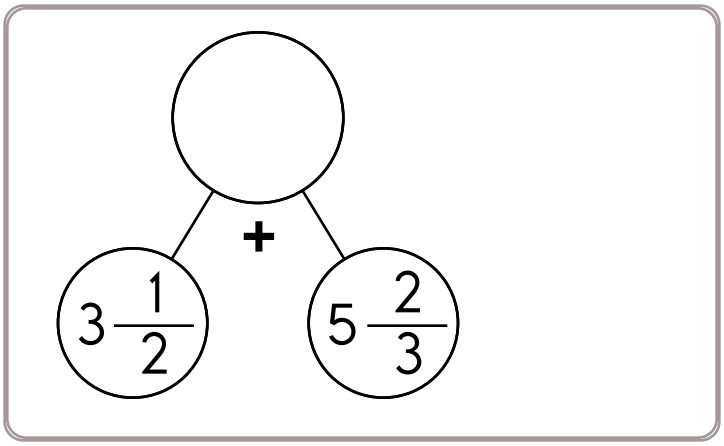
word root **ize** can mean **make** **harmonize, synchronize**

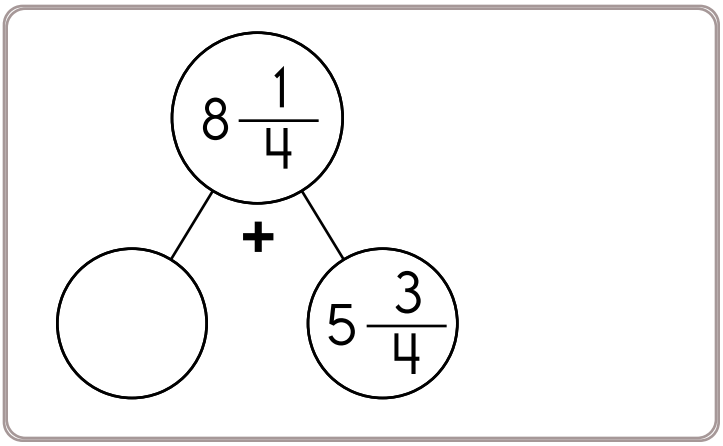
**Name:** _____

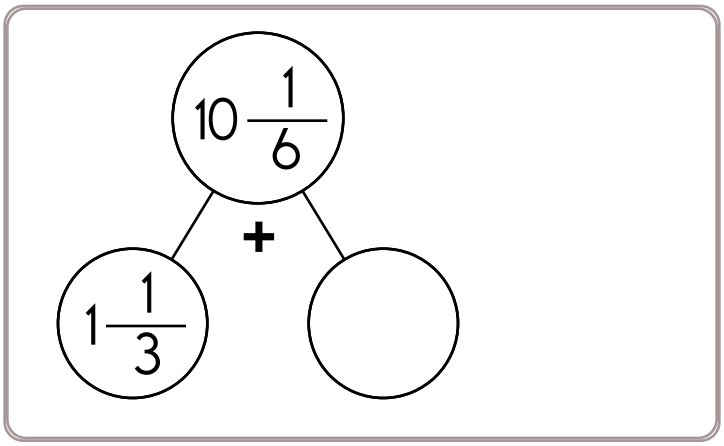

9
+
$7\frac{1}{3}$

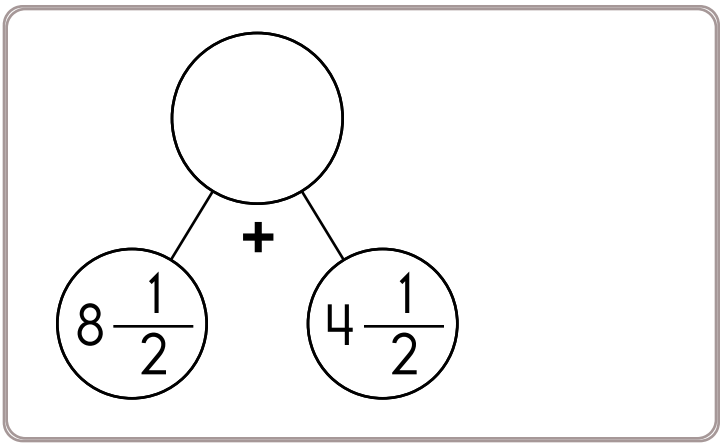

+
$3\frac{4}{7}$
$4\frac{3}{7}$

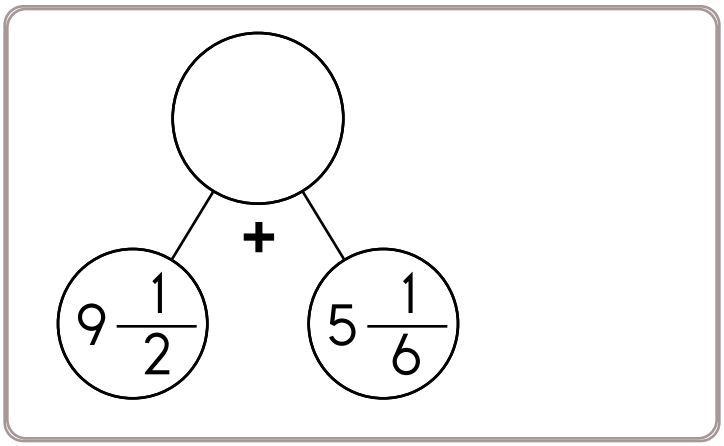

$6\frac{3}{4}$
+
$4\frac{1}{4}$


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


$8\frac{1}{4}$
+
$5\frac{3}{4}$


$10\frac{1}{6}$
+
$1\frac{1}{3}$


+
$8\frac{1}{2}$
$4\frac{1}{2}$


+
$9\frac{1}{2}$
$5\frac{1}{6}$

**Name:** _____

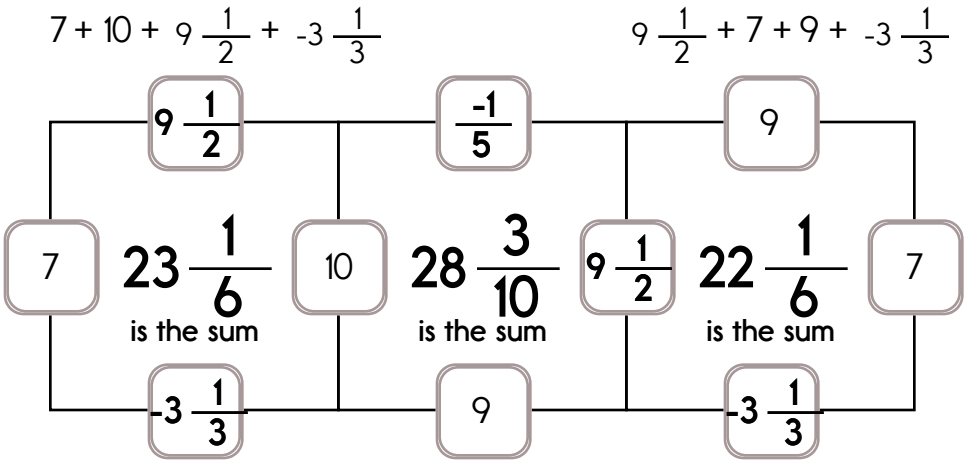
Simplify by combining like terms.

| | |
|---|---|
| 3a + 8a<br><br>11a | 18b - 2b - 3b |
| 7k + 11k | 17a - 8a |
| 17g + 12g - 3g | d + 5d |
| 23w + 10w - 3w | 20a + 3a + 4a |
| 8d + 5d | 8g - 4g |
| 10d - d | 16w + 11w - 7w |

**Name:** _____

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

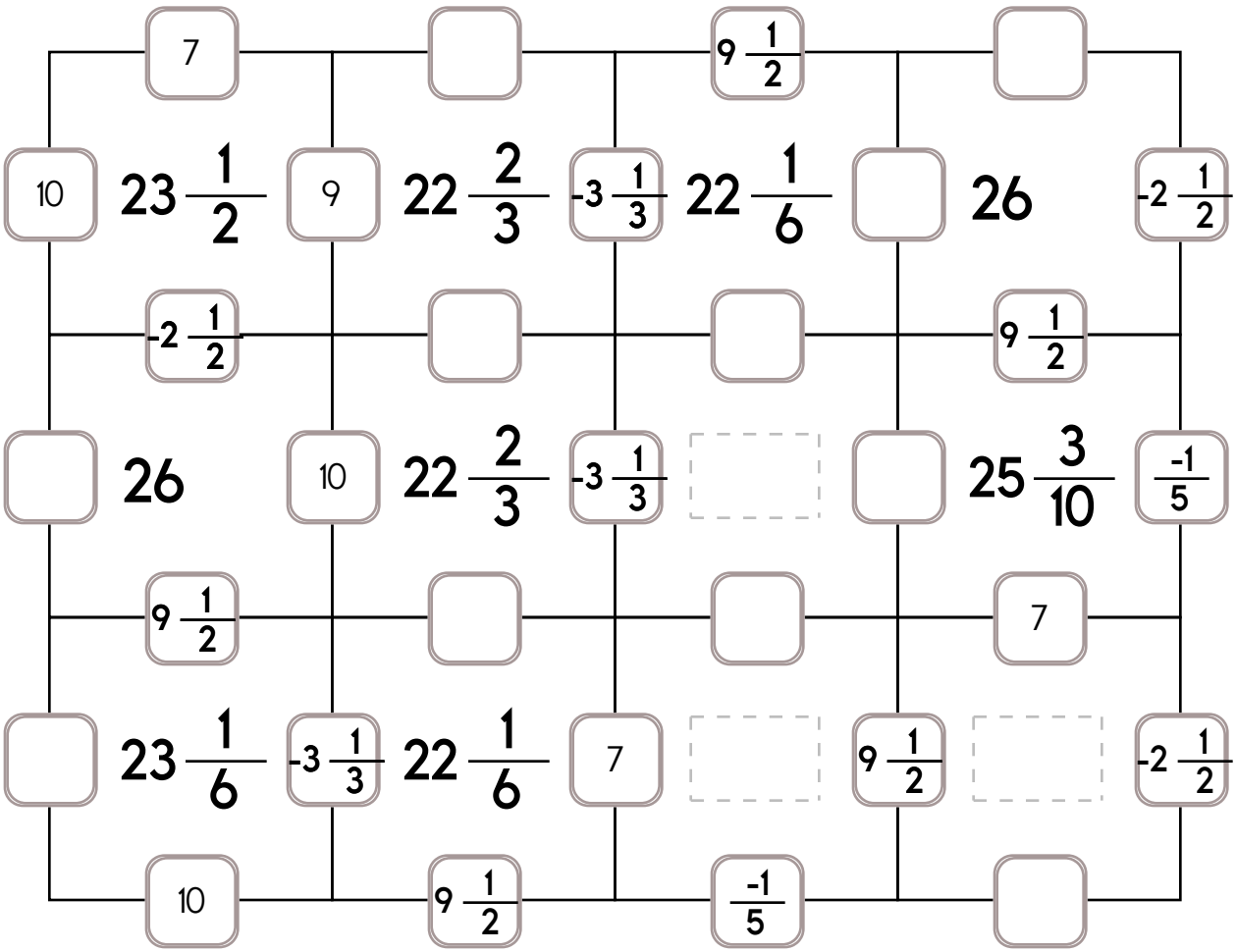
## Sample:




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: $-2\frac{1}{2}$, $-3\frac{1}{3}$, or $\frac{-1}{5}$.

The other three numbers have to all be DIFFERENT and must be from these: 9, $9\frac{1}{2}$, 7, or 10.

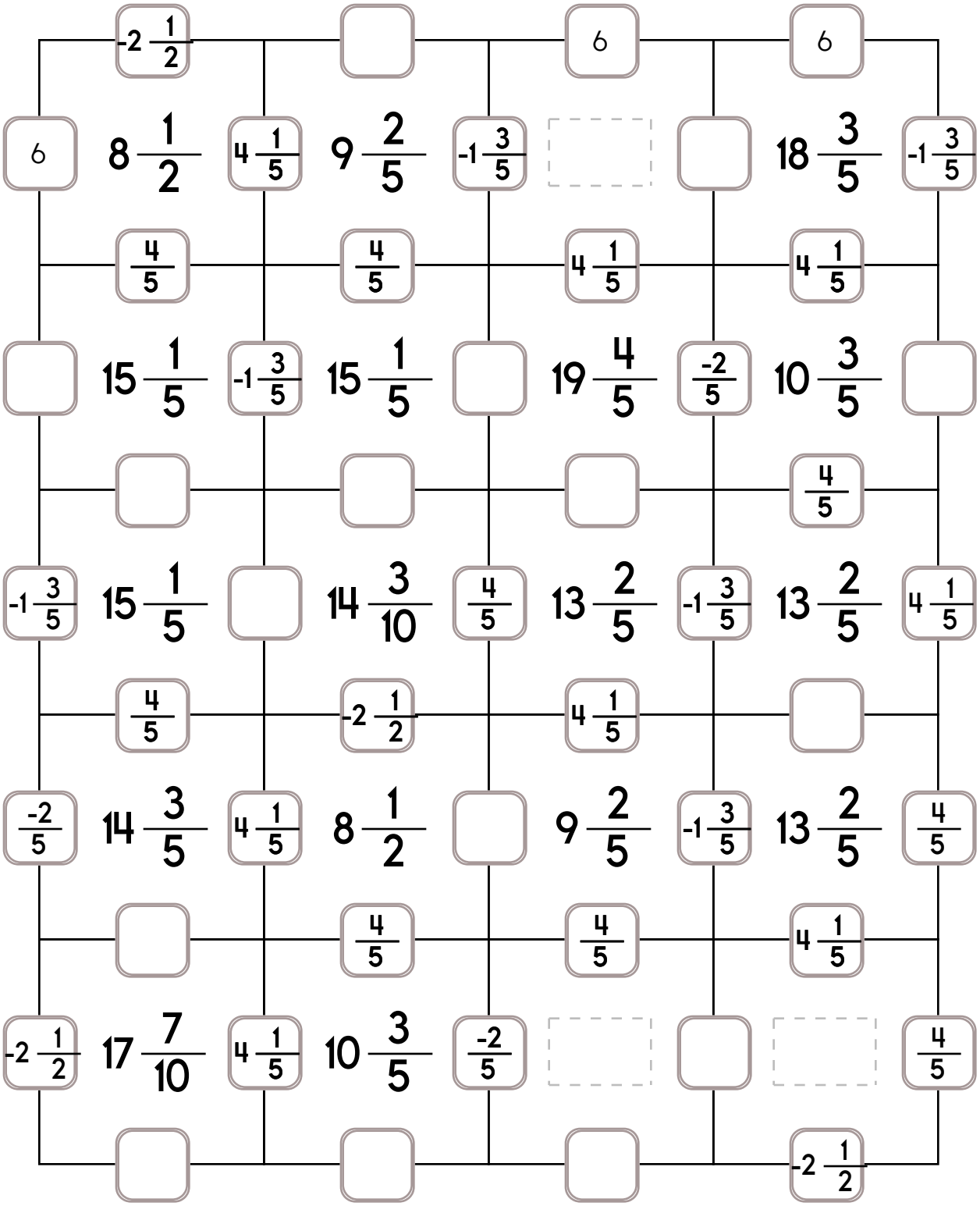


**Name:** _____

**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: $\frac{-2}{5}$, $-2\frac{1}{2}$, or $-1\frac{3}{5}$.

The other three numbers have to all be DIFFERENT and must be from these: $\frac{4}{5}$, 10, $4\frac{1}{5}$, or 6.



**Name:** _____

Complete each analogy with the best word.

| | | |
|---|---|---|
| highway | rainforest | marine |
| bleat | football | urban |
| graze | steam engine | ice skating |
| tracks | cud | correction |
| amend | desert | asphalt |
| herd | baseball | subtraction |
| diving | deletion | |

winter : hockey ::

spring : _____

polar bear : Arctic ::

jack rabbit : _____

chicken : peck ::

cow : _____

boat : water ::

train : _____

(7 + 8) + 3 =

3 x 9 = _____

What time is 16 hours after 3:00 p.m.?

_____

Fill in the missing operations to complete this equation:

26 ____ 19 ____ 31 = 38

5 x 4 =

49 ÷ 7 = _____

Circle the smallest number:

81,264,095

378,259

5,180,234

769,923,847,106

3 x 5 = _____

word root **bi** can mean **two** **biannual, bicentennial, bilateral**

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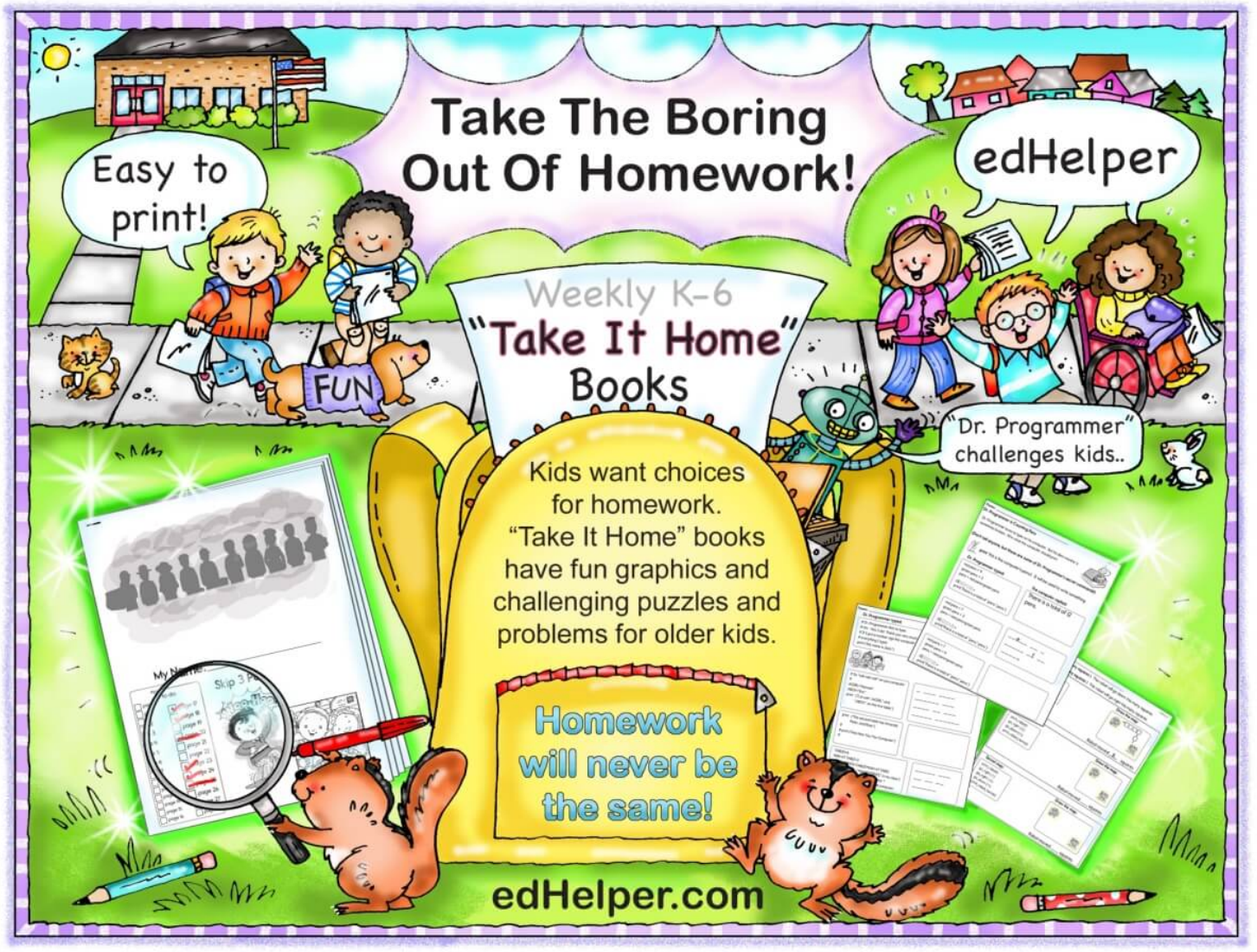
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