

|    |    |  |    |  |     |  |    |  |     |  |
|----|----|--|----|--|-----|--|----|--|-----|--|
| 25 | +4 |  | +1 |  | +47 |  | +8 |  | -11 |  |
|----|----|--|----|--|-----|--|----|--|-----|--|

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

Pick 29 to do:

Skip 2 pages.

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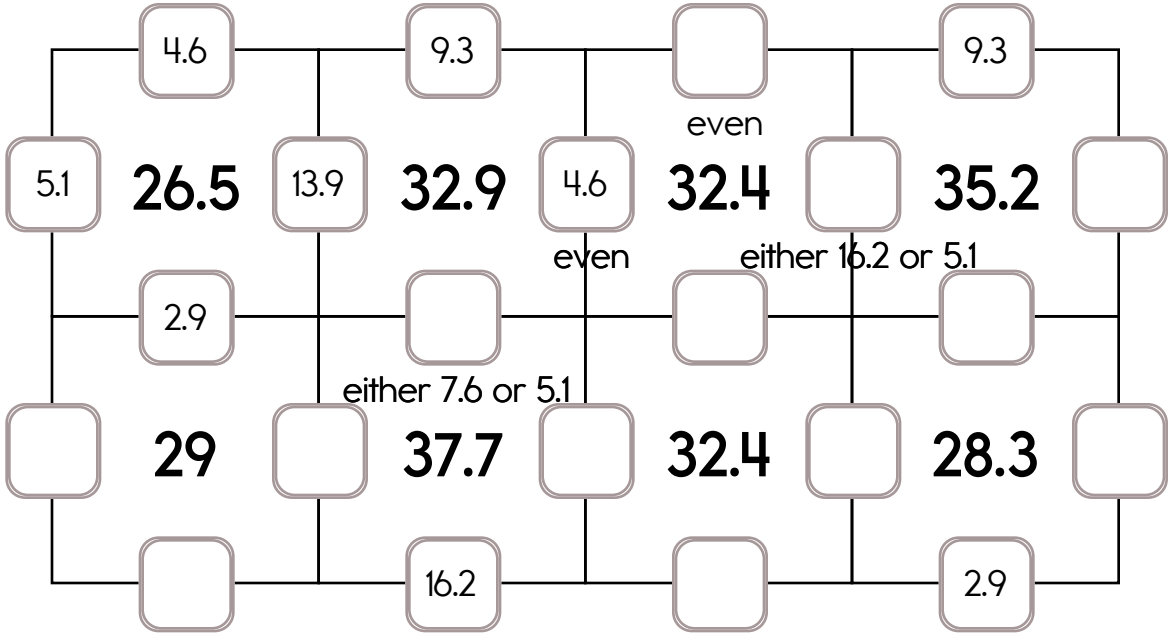
# Challenge Math Book 24



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: 20.4, 13.9, or 16.2.

The other three numbers have to all be DIFFERENT and must be from these: 9.3, 4.6, 8.8, 0.4, 7.6, 2.9, or 5.1.



|     |
|-----|
| 77  |
| -7  |
|     |
| +15 |
|     |
| -29 |
|     |
| +6  |
|     |
| +62 |
|     |
| -33 |

|     |
|-----|
| -63 |
|     |
| +64 |
|     |
| -39 |
|     |
| -2  |
|     |
| -17 |
|     |
| +34 |
| 51  |
| +26 |

|  |    |  |     |  |     |  |     |  |     |  |
|--|----|--|-----|--|-----|--|-----|--|-----|--|
|  | -3 |  | +55 |  | -77 |  | +46 |  | -35 |  |
|--|----|--|-----|--|-----|--|-----|--|-----|--|

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

$$2 \times (80 \div 8) - 88 \div 11 =$$

What is the greatest common factor of the numbers 117 and 26?

Rewrite  $\frac{9}{20}$  as a decimal.

Find the least common denominator for the fractions  $\frac{5}{6}$  and  $\frac{11}{16}$ .

Rewrite as an algebraic expression or equation.

The quotient of 105 and d is 7.

Rose climbed 9 meters in only 22.3 seconds. How many meters did she climb per second?

If  $a = 7$  and  $b = 8$ ,  
then  
 $2a + b =$

$$0.5 (0.6 (0.5 + 2)) =$$

If  $3x = 57$ , then  $x =$

Convert  $24\frac{8}{9}$  to an improper fraction.

What is the mode of the following number set?

72, 65, 61, 68, 63, 77, 76, 62,  
78, 75, 79, 66, 74, 67

If  $y = 7$  and  $h = -25$  then  
what is the value of  $w$ ?  
 $8y - 10h - 2h = w$

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

$$(10 + 13) + 7 = 2(v + 13)$$

What is the value of v?

$$0.4 \times 0.8$$

$$2.2135 \times 10^3 =$$

What is the prime factorization of 36?

7, 7, \_\_\_\_\_, 4, 4, 7, 7, 7,  
7, 7, 4, 4, 7, 7, 7, 7, 7, 7,  
7, 4, 4, 7, 7, 7, 7, 7, 7, 7

$p - \$69 = \$29$   
What is the value of p?

$$\frac{3}{6} \times \frac{7}{9}$$

Use >, <, or = to complete.

$$\frac{2}{10} \text{ — } 41\%$$

$$\frac{1}{2} \text{ — } 13\%$$

$$11\% \text{ — } \frac{1}{12}$$

$$7 + 3 \times 10 + 5$$

$$0.08 \times 0.6$$

Simplify.

$$\frac{16}{40} =$$

$$12 + 7 \times 9 - 1 - 5$$

Circle the percentage that is closest to 33 out of 52:

37%  
57%  
16%  
75%

$$7z - 9.8 = 53.2$$

$$z =$$

Circle the least amount:

44%  
0.37

$$\frac{4}{25}$$

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

Each box needs a number from 1 to 9. You may re-use numbers.  
One set of sums has been done for you.

|               |                |               |   |               |               |  |  |
|---------------|----------------|---------------|---|---------------|---------------|--|--|
| sum of<br>5 → |                |               |   |               |               |  |  |
| sum of<br>9 ↓ | sum of<br>6 →  | 2             | 2 | 2             |               |  |  |
| sum of<br>4 → |                |               |   | sum of<br>8 ↓ | sum of<br>8 ↓ |  |  |
|               | sum of<br>10 ↓ | sum of<br>9 → |   |               |               |  |  |
|               | sum of<br>10 ↓ | sum of<br>6 → |   |               |               |  |  |
| sum of<br>3 ↓ |                | sum of<br>9 → |   |               |               |  |  |
|               |                |               |   |               |               |  |  |
|               |                | sum of<br>7 → |   |               |               |  |  |

|                |                |               |               |                |  |                |               |
|----------------|----------------|---------------|---------------|----------------|--|----------------|---------------|
| sum of<br>10 → |                |               |               |                |  |                | sum of<br>3 ↓ |
| sum of<br>6 ↓  |                | sum of<br>8 → |               |                |  |                |               |
|                |                | sum of<br>5 → |               |                |  |                |               |
|                | sum of<br>10 → |               |               |                |  |                |               |
|                |                | sum of<br>4 ↓ | sum of<br>8 ↓ | sum of<br>10 ↓ |  | sum of<br>10 ↓ |               |
|                | sum of<br>9 →  |               |               |                |  |                |               |
|                | sum of<br>7 →  | 1             | 2             | 4              |  |                |               |
|                | sum of<br>6 →  |               |               |                |  |                |               |

Amy rolls a die. What is the chance of her rolling a 4?

\_\_\_\_\_

For 593,231,107,476, write the digit that is in the ten thousands place.

\_\_\_\_\_

$$\begin{array}{r} 37 \\ - 24 \\ \hline \end{array}$$

Here is a pattern of letters:

P B D B P B D B P ...

What letter will be the 19th term in the pattern?

$$16 \div 8 = \underline{\hspace{2cm}}$$

$$\begin{array}{r} 47 \\ + 39 \\ \hline \end{array}$$

$$87,965 - 16,784 = \underline{\hspace{2cm}}$$

$$5 \times 6 = \underline{\hspace{2cm}}$$

$$\begin{array}{r} 299 \\ + 339 \\ \hline \end{array}$$

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



$181 - \underline{\quad} = 120$

$\underline{\quad} - 90 = 511$

$\underline{\quad} - 31 = 130$

$407 - \underline{\quad} = 356$

$\underline{\quad} - 10 = 598$

$\underline{\quad} - 77 = 468$

$446 - \underline{\quad} = 413$

$277 - \underline{\quad} = 206$

$$\begin{array}{r} 430 \\ - 62 \\ \hline \end{array}$$

$$\begin{array}{r} 541 \\ - 85 \\ \hline \end{array}$$

$$\begin{array}{r} 340 \\ - 94 \\ \hline \end{array}$$

$$\begin{array}{r} 210 \\ - 52 \\ \hline \end{array}$$

$$\begin{array}{r} 428 \\ - 24 \\ \hline \end{array}$$

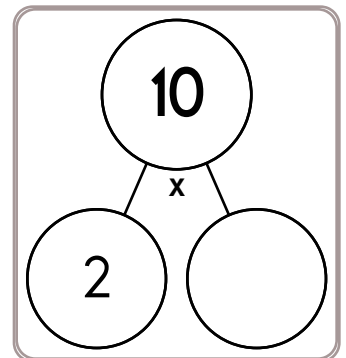
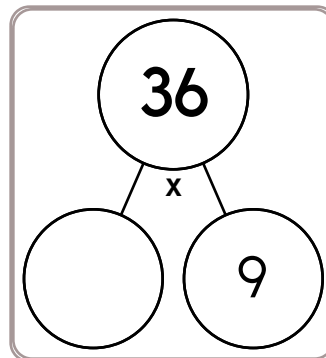
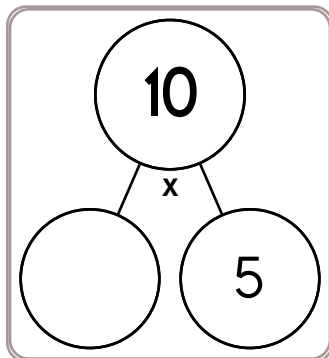
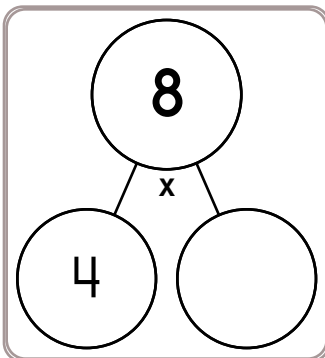
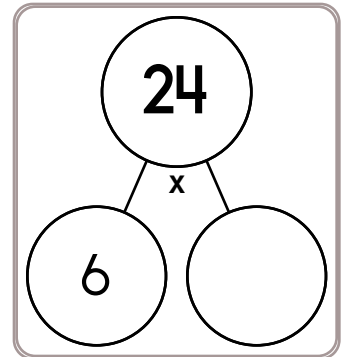
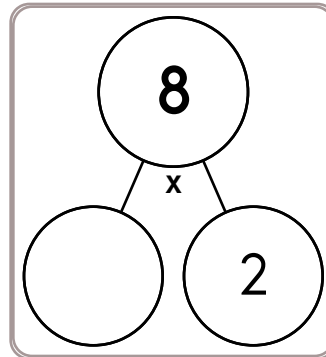
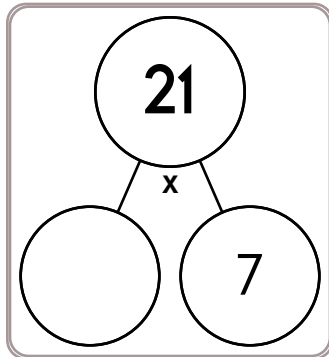
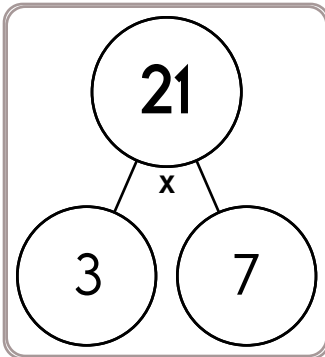
$$\begin{array}{r} 456 \\ - 56 \\ \hline \end{array}$$

$$\begin{array}{r} 488 \\ - 88 \\ \hline \end{array}$$

$$\begin{array}{r} 689 \\ - 31 \\ \hline \end{array}$$

$$\begin{array}{r} 814 \\ - 60 \\ \hline \end{array}$$

$$\begin{array}{r} 325 \\ - 32 \\ \hline \end{array}$$



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

The local football team wants to purchase enough tarp material to cover their field during bad weather. The field, including the end zones is 120 yards long and 50 yards wide. They want to get exactly fifteen percent more than is needed to cover the field so some of the sidelines and area beyond each end zone are covered as well. How many square yards of tarp material should they buy?

Some animal heads were stored at the veterinary office in a freezer. They were to be tested to see if the animals had rabies. If they had 12 specimens and could test one every half-day (a day being a workday of about 8 hours), how many days would it take to test them all?

Write the number that when multiplied by 8 is -88. \_\_\_\_\_

What number multiplied by -10 results in a product of -80? \_\_\_\_\_

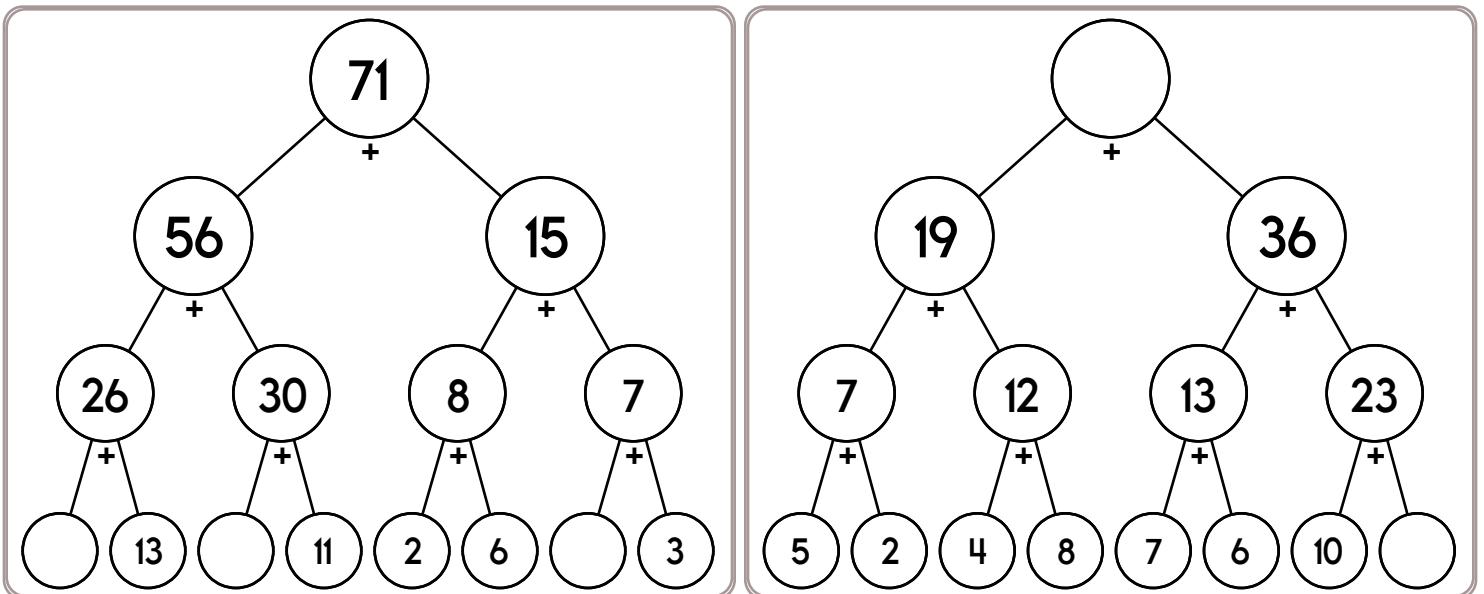
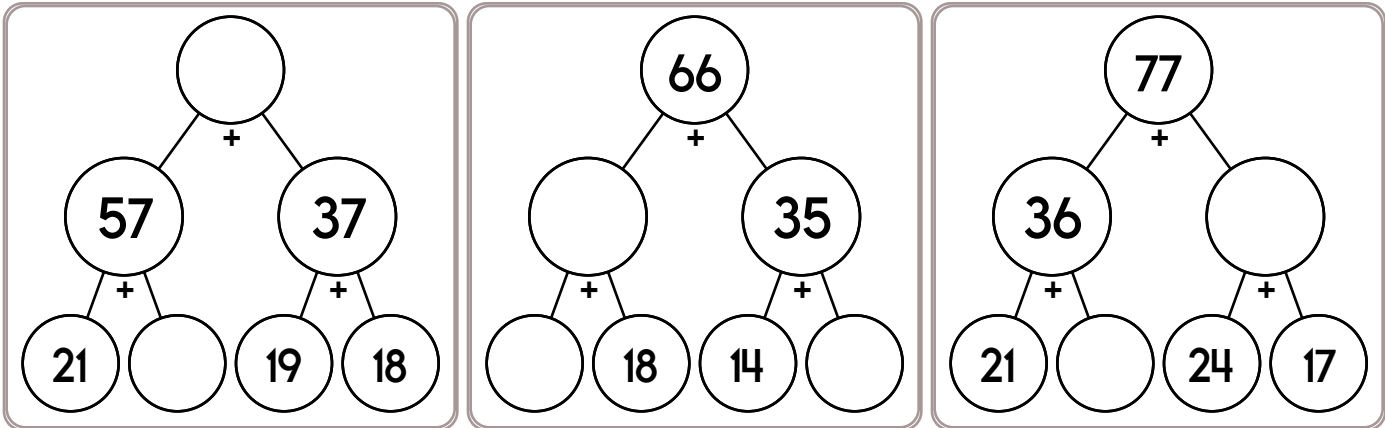
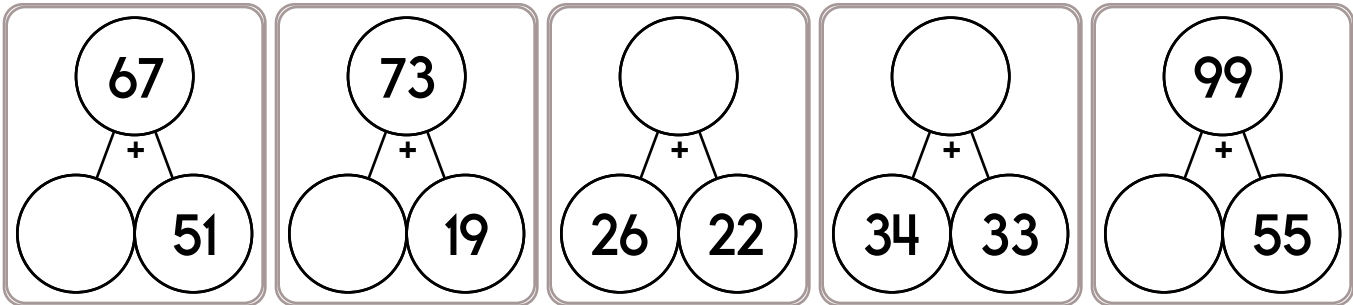
$$5 \times 5 \times 5 \times 5 = x^4$$

What is the value of x?

$$473 \div 10$$

What is the remainder of 59 divided by 18?

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



Write as a decimal.

$$\frac{6}{100}$$

Write as a decimal.  
Forty thousandths

Write as a decimal.

$$12 \frac{36}{100}$$

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

$$\frac{1}{10} =$$

0.01

0.1

10.1

Skill: Basics of Fractions and Mixed Numbers

What is  $17 \div 6$  expressed as a mixed number?

Skill: Fractions and Mixed Numbers (addition/subtraction)

Which is equal to  $31 + 13y$ ?

$31 + 13 \times y$

$(31 + 13) \times y$

Skill: Algebra

The number 6,546 rounded to the nearest \_\_\_\_\_ is 6,550.

100

100,000

10

1,000

Skill: Estimation and Number Theory

Circle the three prime numbers.

There may be multiple answers.

2

29

13

27

Skill: Whole Numbers, Factors, and Prime Numbers

Multiply  $\frac{1}{2}$  by  $\frac{3}{6}$  and simplify answer.

$\frac{1}{4}$

$\frac{3}{12}$

$\frac{4}{6}$

Skill: Fractions and Mixed Numbers (multiplication/division)

Use paper and pencil to answer.

The sum of 255 and 471 is \_\_\_\_\_.

Skill: Whole Numbers

One hundred people were asked, "Would you rather go to the pool or the beach?" Seventy-nine said they would go to the beach. What percent would go to the beach?

0.79%

39%

158%

79%

Skill: Percents

Circle the largest number.

$2\frac{1}{4}$

2.3

2.5

Skill: Positive and Negative Numbers

Circle the smallest number.

3.9

4.8

$2\frac{1}{2}$

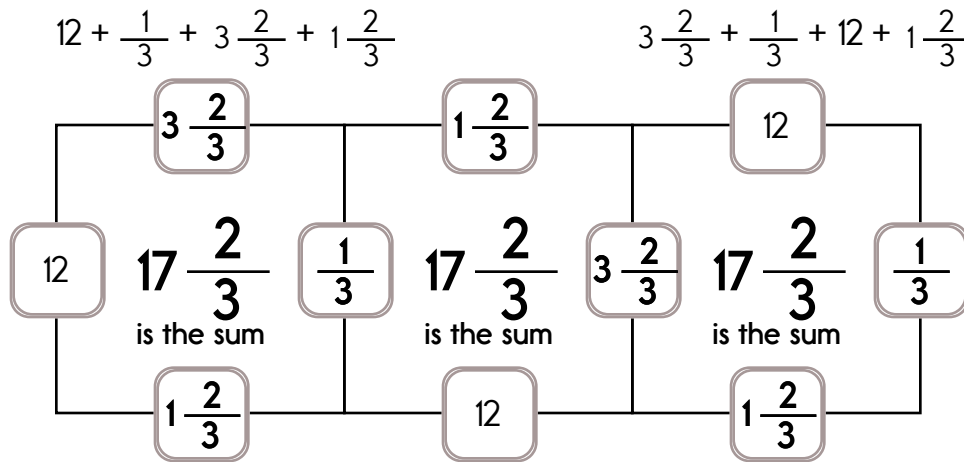
Skill: Positive and Negative Numbers



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

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

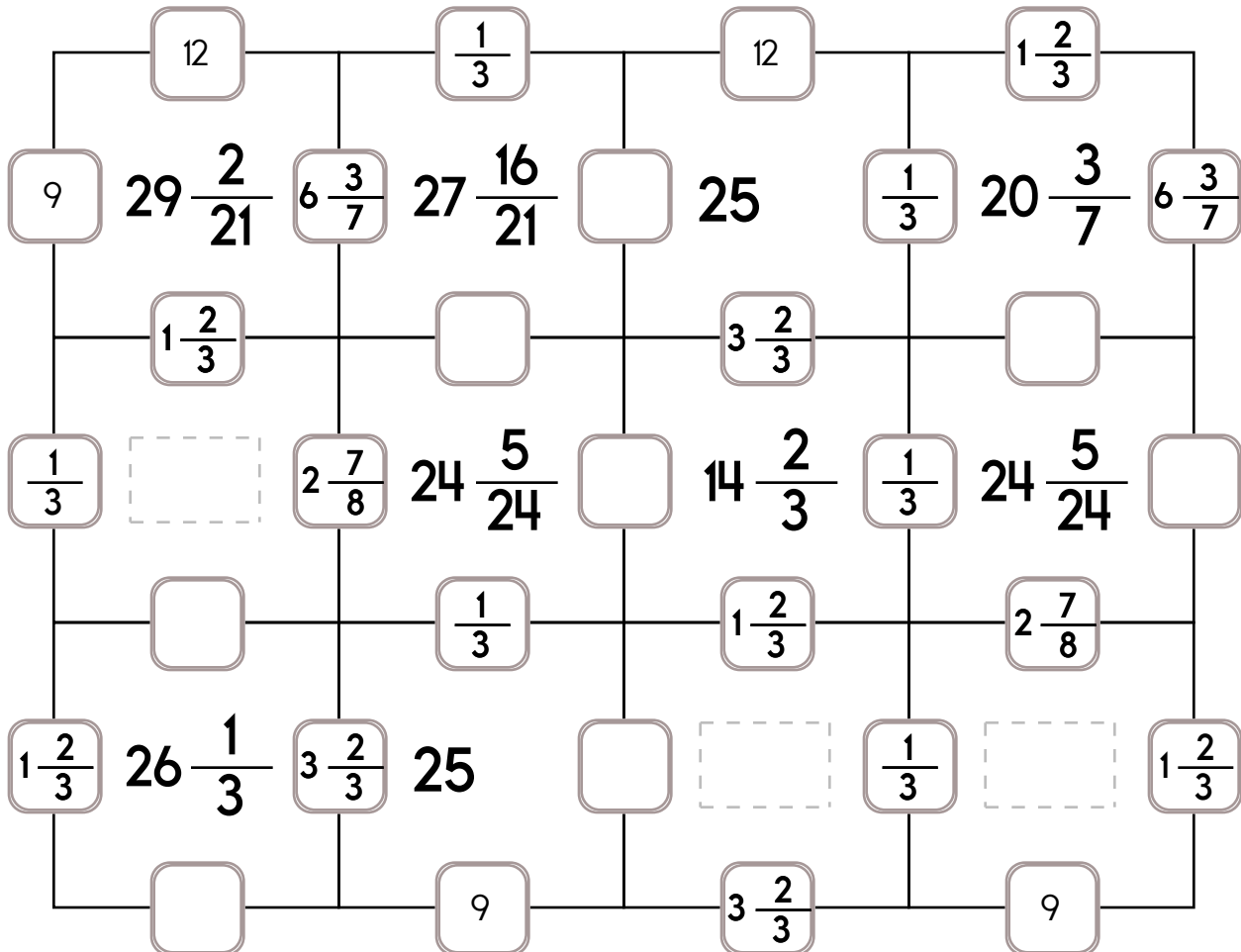
Sample:



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:  $3\frac{2}{3}$ ,  $6\frac{3}{7}$ , or  $2\frac{7}{8}$ .

The other three numbers have to all be DIFFERENT and must be from these:  $\frac{1}{3}$ , 9,  $1\frac{2}{3}$ , or 12.



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:  $9\frac{1}{2}$ ,  $8\frac{6}{7}$ , or  $7\frac{2}{3}$ .

The other three numbers have to all be DIFFERENT and must be from these:  $3\frac{1}{2}$ , 3,  $2\frac{1}{2}$ , or 5.

|                |                 |                |                  |                |                 |                |                  |                |
|----------------|-----------------|----------------|------------------|----------------|-----------------|----------------|------------------|----------------|
|                | 3               |                | $2\frac{1}{2}$   |                | $9\frac{1}{2}$  |                | 3                |                |
| 5              | $18\frac{1}{6}$ | $7\frac{2}{3}$ | $18\frac{1}{6}$  |                | $18\frac{1}{2}$ | $2\frac{1}{2}$ | $19\frac{5}{14}$ | $8\frac{6}{7}$ |
|                | $2\frac{1}{2}$  |                |                  |                | $3\frac{1}{2}$  |                | 5                |                |
| $8\frac{6}{7}$ | $17\frac{6}{7}$ | $3\frac{1}{2}$ | $20\frac{1}{2}$  | $2\frac{1}{2}$ | $18\frac{1}{2}$ |                | $19\frac{5}{14}$ | $8\frac{6}{7}$ |
|                |                 |                | $9\frac{1}{2}$   |                | $9\frac{1}{2}$  |                | $2\frac{1}{2}$   |                |
|                |                 | $3\frac{1}{2}$ | $18\frac{1}{2}$  | $2\frac{1}{2}$ | $20\frac{1}{2}$ | $3\frac{1}{2}$ | $18\frac{2}{3}$  | $7\frac{2}{3}$ |
|                | $8\frac{6}{7}$  |                |                  |                |                 |                |                  |                |
| $2\frac{1}{2}$ | $19\frac{6}{7}$ |                | $20\frac{5}{14}$ | $8\frac{6}{7}$ | $19\frac{6}{7}$ | $3\frac{1}{2}$ | $20\frac{1}{2}$  | $2\frac{1}{2}$ |
|                | $3\frac{1}{2}$  |                | $3\frac{1}{2}$   |                | $2\frac{1}{2}$  |                | $9\frac{1}{2}$   |                |
| $2\frac{1}{2}$ | $17\frac{6}{7}$ |                | 21               | $9\frac{1}{2}$ |                 |                |                  |                |
|                | $8\frac{6}{7}$  |                |                  | $3\frac{1}{2}$ |                 | $2\frac{1}{2}$ |                  |                |

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

**FUN  
BREAK!**

# Play a game online!

[edHelper.com/math-games.htm](http://edHelper.com/math-games.htm)**I PLAYED  
ONE  
GAME**☐(Check the  
box after  
you play.)**MY SCORE**

\_\_\_\_\_

What is the least common  
multiple of 4 and 2?

$$m - 10 = 2$$

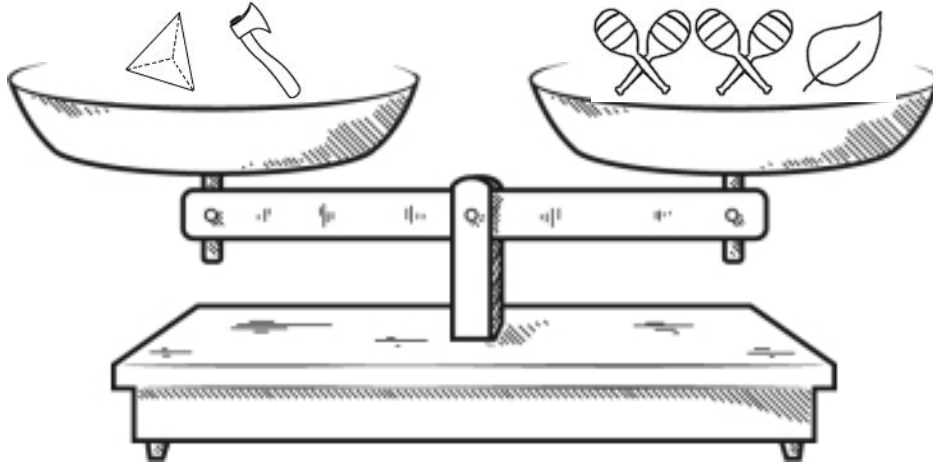
What is the greatest  
common factor of 5 and  
15?If  $a = -5$  and  $b = 45$  then  
what is the value of  $m$ ?  
 $11a - 11b - 2b = m$ 

57, 76, 95, 114, \_\_\_\_\_, 152,

171

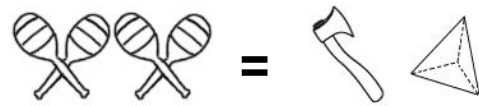
 $t - 6 + t = 26$   
What is the value of  $t$ ?

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



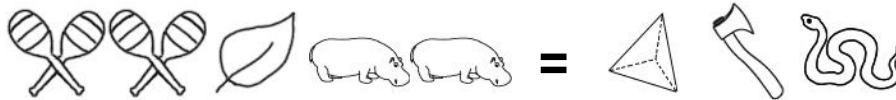
☐ True

☐ False



☐ True

☐ False



☐ True

☐ False



☐ True

☐ False



☐ True

☐ False



☐ True

☐ False

Did you find that two are true? If not, look again!  
You should only mark TRUE if you are absolutely sure it is correct!

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

Fill in each box of the edHelperKu puzzle, using the numbers from 1 to 5.

Every row must contain the numbers 1, 2, 3, 4, and 5.

Every column must contain the numbers 1, 2, 3, 4, and 5.

In a cage with a subtraction sign, the given number will be the difference. The largest number will always be the box with the clue.

|    |    |    |    |    |
|----|----|----|----|----|
| 3- | 1- |    | 2- |    |
| 1  | 1- |    | 2- | 5  |
| 4- |    | 3  |    | 2- |
| 5  |    |    |    |    |
| 1- | 4  | 4- |    |    |
|    | 1- |    | 2- |    |
|    |    |    |    |    |

Fill in the blanks. These equations are from the puzzle above.

5 - \_\_\_\_ = 4

5 - \_\_\_\_ = 4

\_\_\_\_ - 1 = 1

3 - \_\_\_\_ = 2

\_\_\_\_ - 2 = 2

4 - \_\_\_\_ = 2

\_\_\_\_ - 1 = 3

5 - \_\_\_\_ = 1

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



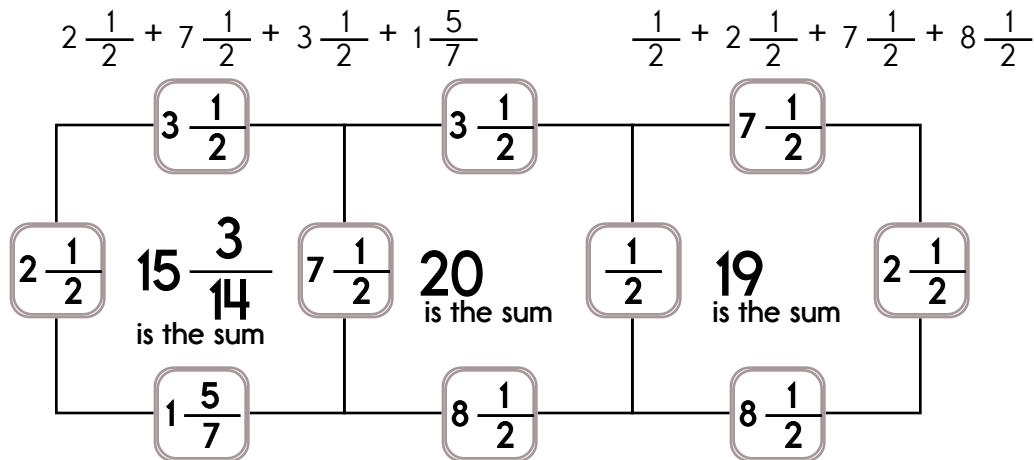
Write your own math problem here.

Ask the person who helped you to try to solve your problem.

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

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

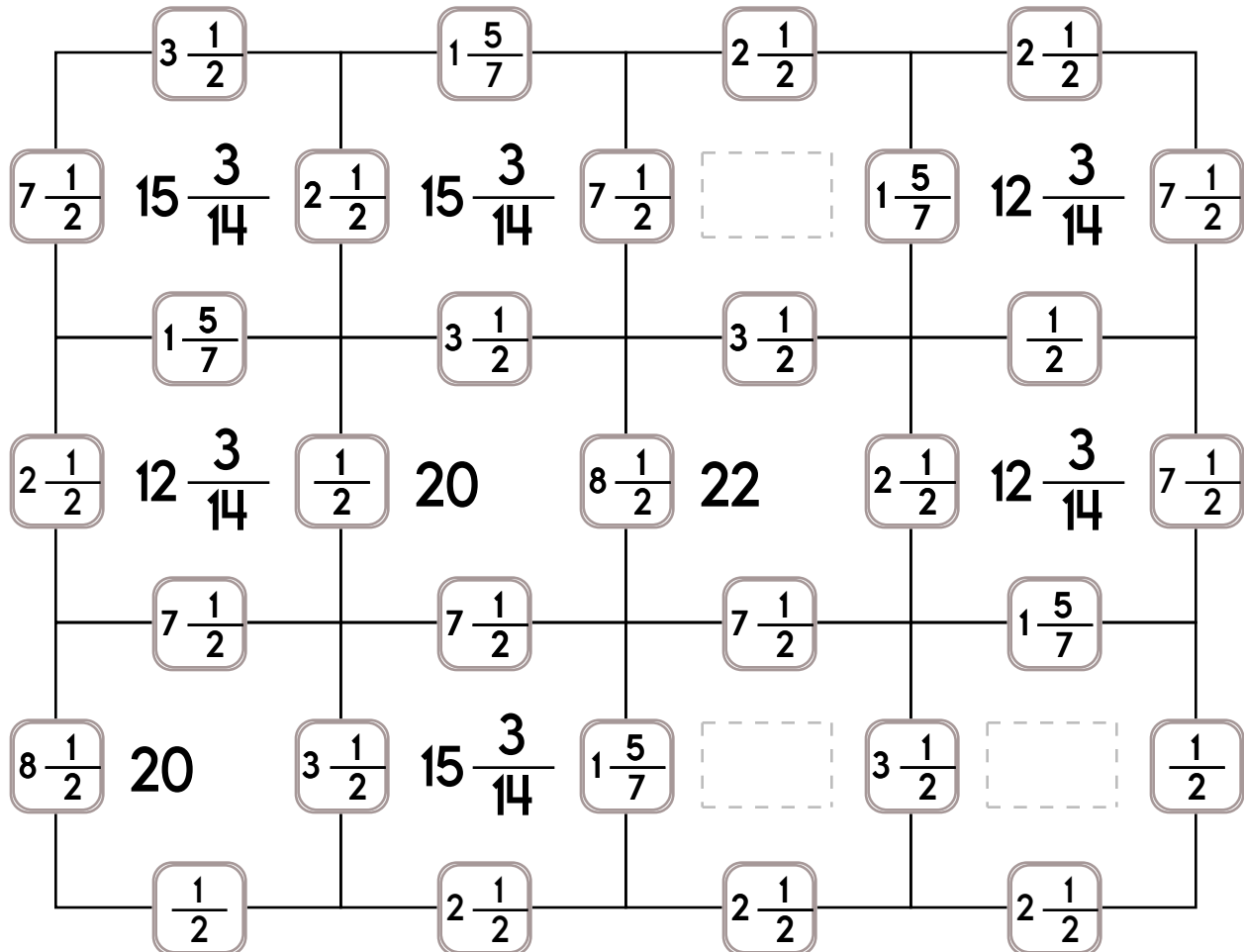
Sample:



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:  $8\frac{1}{2}$ ,  $5\frac{2}{7}$ , or  $1\frac{5}{7}$ .

The other three numbers have to all be DIFFERENT and must be from these:  $2\frac{1}{2}$ ,  $7\frac{1}{2}$ ,  $3\frac{1}{2}$ , or  $\frac{1}{2}$ .



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:  $6\frac{1}{8}$ ,  $4\frac{1}{9}$ , or  $9\frac{2}{3}$ .

The other three numbers have to all be DIFFERENT and must be from these:  $4\frac{1}{4}$ ,  $7\frac{1}{2}$ ,  $6\frac{5}{8}$ , or  $9\frac{3}{8}$ .

|                |                   |                |                   |                |                   |                |                   |                |
|----------------|-------------------|----------------|-------------------|----------------|-------------------|----------------|-------------------|----------------|
|                | $4\frac{1}{4}$    |                | $9\frac{3}{8}$    |                | $6\frac{5}{8}$    |                | $6\frac{5}{8}$    |                |
| $6\frac{5}{8}$ | $24\frac{1}{2}$   | $7\frac{1}{2}$ | $27\frac{11}{18}$ | $4\frac{1}{9}$ | $24\frac{13}{36}$ | $9\frac{3}{8}$ | $27\frac{11}{18}$ | $4\frac{1}{9}$ |
|                | $6\frac{1}{8}$    |                | $6\frac{5}{8}$    |                | $4\frac{1}{4}$    |                | $7\frac{1}{2}$    |                |
| $9\frac{3}{8}$ | $27\frac{1}{4}$   | $7\frac{1}{2}$ | $29\frac{5}{8}$   | $6\frac{1}{8}$ | $26\frac{3}{8}$   | $6\frac{5}{8}$ | $24\frac{1}{2}$   | $6\frac{1}{8}$ |
|                | $4\frac{1}{4}$    |                | $9\frac{3}{8}$    |                | $9\frac{3}{8}$    |                | $4\frac{1}{4}$    |                |
| $6\frac{5}{8}$ | $22\frac{35}{72}$ | $4\frac{1}{9}$ | $27\frac{11}{18}$ | $7\frac{1}{2}$ | $29\frac{5}{8}$   | $6\frac{1}{8}$ | $27\frac{1}{4}$   | $9\frac{3}{8}$ |
|                | $7\frac{1}{2}$    |                | $6\frac{5}{8}$    |                | $6\frac{5}{8}$    |                | $7\frac{1}{2}$    |                |
| $4\frac{1}{9}$ |                   | $9\frac{3}{8}$ | $26\frac{3}{8}$   | $6\frac{1}{8}$ | $26\frac{3}{8}$   | $9\frac{3}{8}$ | $25\frac{17}{72}$ | $4\frac{1}{4}$ |
|                | $4\frac{1}{4}$    |                | $4\frac{1}{4}$    |                | $4\frac{1}{4}$    |                | $4\frac{1}{9}$    |                |
| $6\frac{5}{8}$ | $28\frac{1}{24}$  | $7\frac{1}{2}$ | $28\frac{1}{24}$  | $6\frac{5}{8}$ |                   | $7\frac{1}{2}$ |                   | $6\frac{5}{8}$ |
|                | $9\frac{2}{3}$    |                | $9\frac{2}{3}$    |                | $6\frac{1}{8}$    |                | $4\frac{1}{4}$    |                |



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

Circle all of the numbers that are greater than 6.3.

$6\frac{3}{4}$

$\frac{216}{32}$

$\frac{16}{3}$

$\frac{13}{2}$

$\frac{38}{5}$

$\frac{123}{18}$

$\frac{23}{4}$

$6\frac{4}{5}$

$\frac{23}{3}$

$\frac{31}{5}$

$6\frac{3}{9}$

$\frac{42}{6}$

6.09

6.8

6.0120

6.80

Estimate quickly the  
difference.  
 $5,330 - 1,190$ Pick the family fact that is  
missing.

$98 \div 14 = 7$

$7 \times 14 = 98$

$14 \times 7 = 98$

$8 \div \frac{1}{2}$

50, 60, \_\_\_\_\_, 80, 90, 100

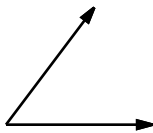
The radius of a circle is 371  
cm. What is the diameter  
of this circle?Round 12,609 to the  
nearest thousand.

$4 \times 3 = \underline{\hspace{2cm}}$

$9 \text{ km} = \underline{\hspace{2cm}} \text{ m}$

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

Pick the correct answer using brain power. No writing.

 $0.2 \times 0.3$  is what? 6 or 0.06 or 0.006 $0.10 \times 0.6$  is what? 0.06 or 60 or 0.006 $0.02 \times 0.12$  is what? 0.024 or 0.000002 or 0.0024 $2.5 \times 0.6$  is what? 0.0015 or 1.5 or 150

What kind of angle is this?

Sketch 2 lines  $\overleftrightarrow{IJ}$  and  $\overleftrightarrow{XY}$  that are intersecting.

A rectangle is 24 cm on one side and 13 cm on another side. What is the perimeter?

5, 7, 9, 11, \_\_\_\_\_, 15, 17, 19,

21

 $9 \times 9 + 3 + 8$  $51,329 + 89,864 =$  \_\_\_\_\_

1 lb = 16 oz

15 lb = \_\_\_\_\_ oz

☐

I did page 18

☐I decided to skip this page  
edHelper

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

Fill in each box of the edHelperKu puzzle, using the numbers from 1 to 6.

Every row must contain the numbers 1, 2, 3, 4, 5, and 6.

Every column must contain the numbers 1, 2, 3, 4, 5, and 6.

In a cage with a plus sign, the given number will be the sum of all the digits in the cage.

|     |     |    |     |     |   |
|-----|-----|----|-----|-----|---|
| 11+ |     | 4  | 13+ | 11+ |   |
|     | 18+ |    | 6   | 6+  | 1 |
| 6   |     |    |     |     |   |
| 19+ | 3   | 7+ | 15+ |     |   |
|     |     |    | 5+  | 9+  |   |
|     |     |    |     |     | 5 |

Fill in the blanks. These equations are from the puzzle above.

$$\underline{\quad} + 1 + \underline{\quad} = 6$$

$$\underline{\quad} + 4 + \underline{\quad} + \underline{\quad} = 15$$

$$\underline{\quad} + \underline{\quad} + 3 + \underline{\quad} + \underline{\quad} = 18$$

$$3 + \underline{\quad} = 9$$

$$2 + \underline{\quad} + \underline{\quad} = 5$$

$$6 + \underline{\quad} = 7$$

$$\underline{\quad} + 6 = 11$$

$$\underline{\quad} + 6 + \underline{\quad} = 13$$

$$1 + \underline{\quad} + \underline{\quad} + \underline{\quad} + \underline{\quad} = 19$$

$$\underline{\quad} + \underline{\quad} + \underline{\quad} + 4 = 11$$

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

Complete each pattern. Write what the rule is.

$$6, 10, 6\frac{1}{5}, 10\frac{1}{5}, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}, 6\frac{3}{5},$$
$$10\frac{3}{5}, 6\frac{4}{5}, 10\frac{4}{5}, 7, 11, 7\frac{1}{5}, 11\frac{1}{5}$$

$$\underline{\hspace{1cm}}, \underline{\hspace{1cm}}, 5\frac{1}{5}, 15\frac{1}{5}, 5\frac{2}{5},$$
$$15\frac{2}{5}, 5\frac{3}{5}, \underline{\hspace{1cm}}, 5\frac{4}{5}, 15\frac{4}{5}$$

There are two alternating sequences here. Add  $\frac{1}{5}$  to both.

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

$$3, 12, 15, 27, 42, 69, 111, 180, 291, 471, 762, 1233, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}$$

$$6, 19, 25, 44, 69, 113, 182, 295, 477, 772, 1249, 2021, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}$$

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

**FUN  
BREAK!**

# Play a game online!

[edHelper.com/math-games.htm](http://edHelper.com/math-games.htm)**I PLAYED  
ONE  
GAME**☐(Check the  
box after  
you play.)**MY SCORE**

\_\_\_\_\_



$$\frac{N}{40} = 36$$

$$8m = 24$$

$$19y = 76$$

Rewrite  $\frac{7}{100}$  as a  
decimal.

$$4 + 72 \div 9 - 32 \div 8 =$$

What is the greatest  
common factor of the  
numbers 84 and 98?

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

$$\begin{array}{r} 19.05 \\ \times 0.4 \\ \hline \end{array}$$

$$\begin{array}{r} 7.6 \\ - 1.56 \\ \hline \end{array}$$

Write the decimal number  
for:  
four ten-thousandths

Use >, <, or = to complete.

$$364 \text{ \_\_\_ } 366.78$$

$$29.500 \text{ \_\_\_ } 29.5$$

$$230 \text{ \_\_\_ } 234.6$$

$$2.7 \text{ \_\_\_ } 2.92$$

$$409.42 \text{ \_\_\_ } 404$$

$$15.36 \text{ \_\_\_ } 15.6$$

$$218 \text{ \_\_\_ } 215.3$$

Change  $\frac{4}{20}$  to a  
decimal.

$$14 \overline{) 310.8}$$

$$10,000 \times 13.8 =$$

$$\begin{array}{r} 3.92 \\ \times 9.6 \\ \hline \end{array}$$

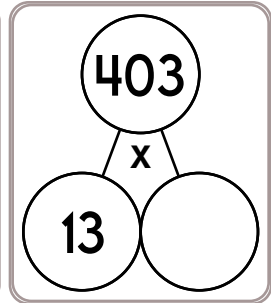
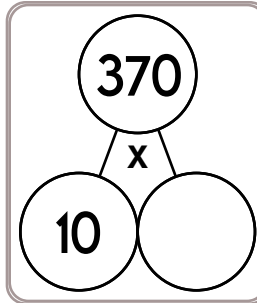
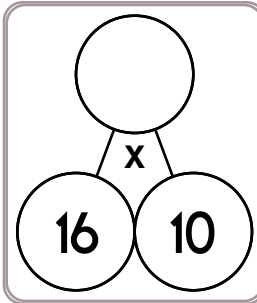
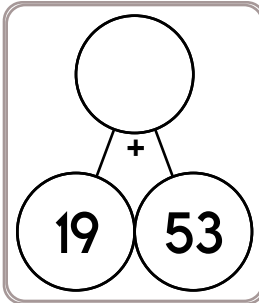
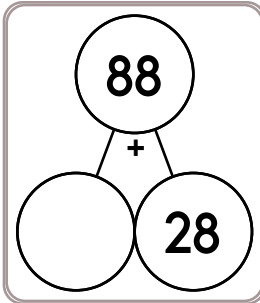
$$\begin{array}{r} 5.64 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 5,386.2 \\ 6,198 \\ + 5,515 \\ \hline \end{array}$$

$$\begin{array}{r} 997,864.8 \\ 924,542.27 \\ 904,806.26 \\ + 533,113.7 \\ \hline \end{array}$$

$$0.029 \overline{) 1.5718}$$

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



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

It was 83 degrees outside. What would the temperature be if it got 11 degrees colder?

Round 13,609 to the nearest thousand.

5, \_\_\_\_\_, 7, 12, 9, 19, 11,  
26, 13, 33, 15, 40, 17, 47

42,  $40\frac{1}{4}$ ,  $38\frac{1}{2}$ ,  $36\frac{3}{4}$ ,  
35,  $33\frac{1}{4}$ ,  $31\frac{1}{2}$ ,  
\_\_\_\_\_, 28,  $26\frac{1}{4}$ ,  $24\frac{1}{2}$ ,  
 $22\frac{3}{4}$ , 21,  $19\frac{1}{4}$

Circle the three numbers whose product equals 160.

4      5      10  
4      4      6

The perimeter of a rectangle is 18 cm. The longer side is 7 cm. How long is the shorter side?

How many centimeters in 570.9 meters?

$7 + (12 + 4) + 5$

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

Cross off the number that does NOT belong.

9, 90, 98, 980, 988, 2961, 9880

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

Cross off the number that does NOT belong.

(322,687,697,779), (16,983,563,041), (893,871,739),

(47,045,881), (2,476,099), (130,321), (6,859),

(361), (277), (19)

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



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

Find 2 equations hidden in each box. Good luck!

85  
168  
219  
640  
59 x 8  
62  
61 + 1  
95 x 7  
32  
43 x 3  
472  
44 + 3  
16 + 1  
7 + 31  
91 x 4  
51  
72 x 8  
44

Write 2 equations: \_\_\_\_\_

78 + 97  
117  
64 + 56  
80  
8 x 7  
48 + 26  
5 x 6  
175  
120  
24 + 86  
124  
7 x 7  
14  
27  
85

Write 2 equations: \_\_\_\_\_

86  
24 + 7  
4 + 85  
686  
25  
21  
97  
98 x 7  
3 + 17  
53  
95 + 2  
531  
99 x 2  
344  
72 x 3  
32 x 7

Write 2 equations: \_\_\_\_\_

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

Find 2 equations hidden in each box. Good luck!

$18 \times 8$

$31 + 24$

$117$

$855$

$492$

$84$

$65 + 71$

$416$

$139$

$87$

$27 + 60$   
 $212$

$136$

$143$

Write 2 equations: \_\_\_\_\_

$33$   
 $72$

$40 + 42$

$73$

$7$

$30$

$6$

$11 + 22$

$100$

$6 \times 5$

$99 + 57$

$94 + 80$

$70$   
 $42 + 22$

$5 \times 3$

$91$

$66 + 85$

Write 2 equations: \_\_\_\_\_

$29 + 19$

$50 + 55$

$34$

$31 + 47$

$85$

$12 + 22$

$39 + 26$

$51 + 47$

$98$

$15$

$42$

$66 + 65$

$72$

$88 + 51$

$6 \times 2$

$61$

$56$

Write 2 equations: \_\_\_\_\_

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

Mrs. Jones is old. "I am NOT! I'm 26," Mrs. Jones says.

"Yeah, sure," says her student, Pam, who is 10. "My mom says you might even be 90!"

"Okay, sweetie. I'm younger than 90," Mrs. Jones says to Pam. "If you divide my age by yours, you will have a remainder of 4."

Mrs. Jones is always giving her students a headache. "If you divide my age by 8, you will have a remainder of 2."

That got Pam thinking. "If it helps, the tens digit of my age is three more than the ones digit," she whispered to Pam.

How much older is Mrs. Jones than Pam?

How old is Mrs. Jones?

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

# CHALLENGE YOUR CLASSMATES!

(OR SIBLING OR PARENT)

Play against  
someone!

Go to:

[edhelper.com/math-games.htm](http://edhelper.com/math-games.htm)

Pick your  
grade. Then play  
to challenge  
someone else.

Date played:

Whom I challenged:

Who won?

Explain what you learned from one math problem you got wrong.



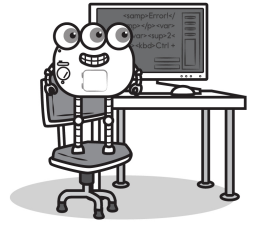
Multiply 538 and 4.

$$\begin{array}{r} 46 \\ \times 19 \\ \hline \end{array}$$

$$\begin{array}{r} 39 \\ \times 2 \\ \hline \end{array}$$

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

Robot was given a math problem to solve.



Adam counted the TV dinners in the display case. Half of the dinners were fried chicken. If 6 of the dinners are fried chicken, how many TV dinners are in the display case?

Robot wrote this program in Python to solve it.

```
# Number of Fried Chicken dinners
```

```
fried_chicken_dinners = 6
```

```
# Total number of dinners
```

```
total_dinners = fried_chicken_dinners * 2
```

```
print("The total number of TV dinners in the display case is ", total_dinners)
```

Robot's program will print the answer to the math problem.

What will the program print out? Fill in the blanks.

The total number of TV dinners in the display case is \_\_\_\_ \_\_\_\_



### Hints and Questions

To multiply in Python `*` is used.

When Robot wants to help explain something in the program, Robot starts a line with `#` and a space. This is called a comment. How many comments are in Robot's program?

After Robot's program is done, the variable `fried_chicken_dinners` will have a value in it. What value does it have?

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

Robot wrote this program to solve a math problem.

```
# Define the variables
```

```
total_players = 52
```

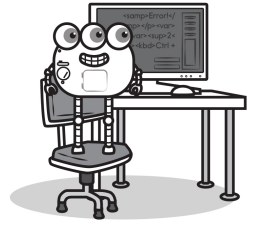
```
players_per_team = 4
```

```
# Perform the division to get the number of teams
```

```
teams = total_players / players_per_team
```

```
# Print the result
```

```
print("There will be", int(teams), "teams.")
```



What will the program print out? Fill in the blanks.

There will be \_\_\_\_ teams.

Wait! Robot forgot to write down the math problem.

Can you write your own word problem to explain Robot's computer code?

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

Coach Dave is proud of his hockey team. They had a great season and only lost in the finals to a really good team.

Coach Dave wants to give his best player a trophy. Only 4 players scored during the season.

Jack played 15 games, scored 12 goals, had 6 assists, and spent 22 minutes in the penalty box.

Bob played 13 games, scored 8 goals, had 10 assists, and spent 10 minutes in the penalty box.

Arnold played 16 games, scored 2 goals, had 20 assists, and spent 43 minutes in the penalty box.

Anna played 14 games, scored 3 goals, had 9 assists, and spent 18 minutes in the penalty box.

She was the only girl on the team.

Help Coach Dave decide who most deserves the trophy. What would you say to Coach Dave?

Show your work.

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



Draw a polygon with an area close to 14 square units and with a minimum of 7 sides.

The students chosen for the class play were posted. All of the students in the play are in Mrs. Wilson's class and were born in months with exactly 30 days. For each student, write whether they are in the play, might be in the play, or are not in the play.

Adam is in Mrs. Wilson's class and was born on May 26.

Kevin is in Mrs. Wilson's class and was born on January 19.

Mary is in Mr. Miller's class and was born on November 21.

Megan is in Mrs. Wilson's class and was born on September 9.

Rosa is in Mrs. Hernandez's class and was born on April 18.

Estimate the smallest product you think you could get by multiplying two positive whole numbers. The first number needs to have 1 digit, and the second number needs to have 2 digits. Explain your estimation.

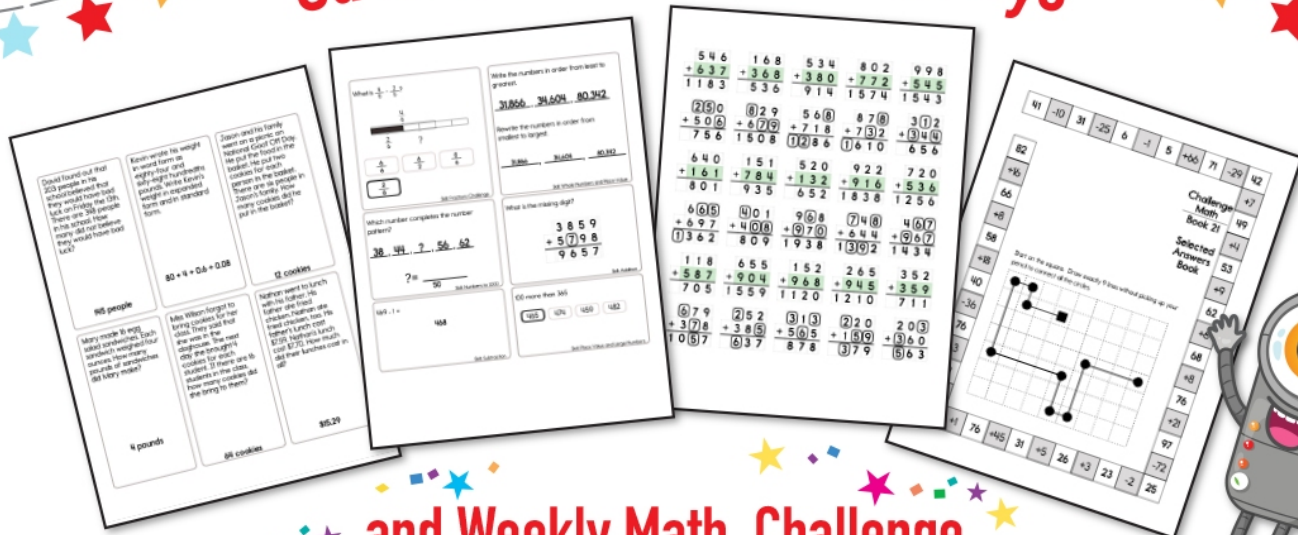
Now try to actually find the smallest product.

Anne got \$260 on her birthday. She decided to invest her money. She bought her first shares of stock by buying 10 shares of The Zoomery Company (TZC). Each share cost \$8.40 on her birthday.

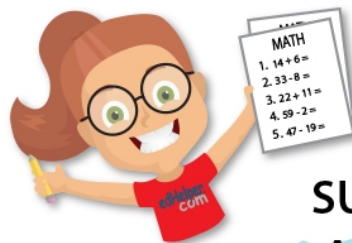
Six weeks later the price was \$10.61, and she sold all of her shares. Ten weeks after that the price was still rising. It was \$11.37, and she decided to repurchase 10 shares of TZC. In two months, the price was dropping. It was now \$9.77, and she sold her shares. How much money does she have?



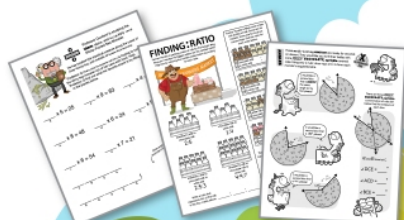
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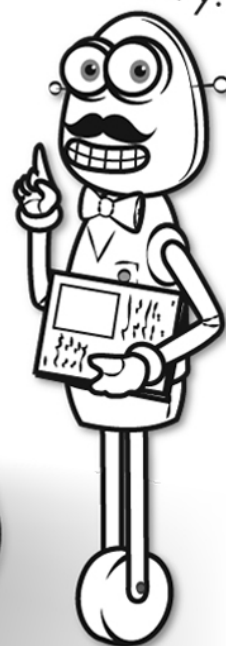


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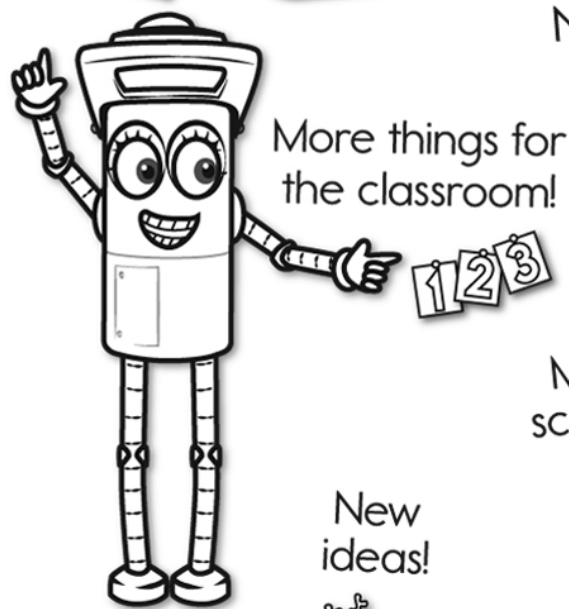
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