Name: _____

seventy-four million three hundred forty-eight thousand one hundred forty-five =

A) 74348145000
B) 184474350
C) 74348145
D) 743481450

How many of the following numbers are even?
21, 56, 78, 14, 97, 28, 63, and 16

A) 2
B) 3
C) 6
D) 5

It is now 2:38. What time will it be in 41 minutes?

A) 3:19
B) 3:23
C) 3:24
D) 3:18

2400 ÷ 3 =

A) 800
B) 807
C) 810
D) 520

Which two numbers are both factors of 72?

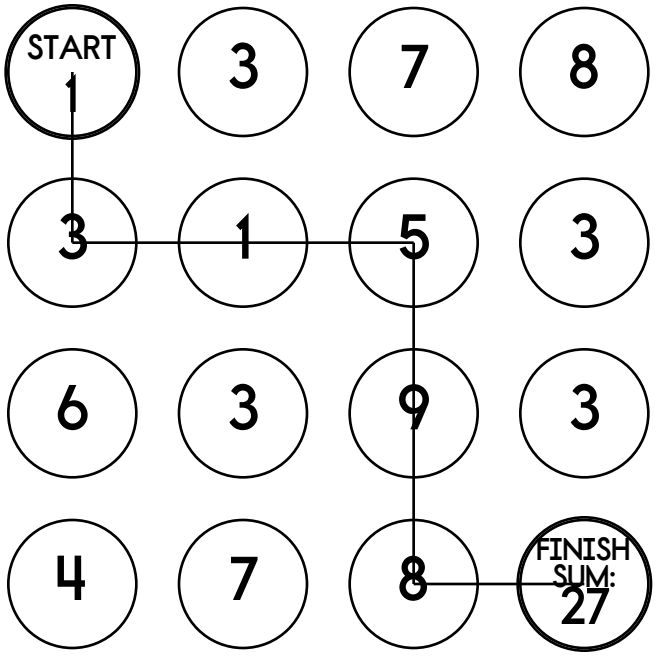
A) 8, 30
B) 63, 20
C) 2, 6
D) 18, 27

Estimate. 913 - 467 =

A) 100
B) 300
C) 400

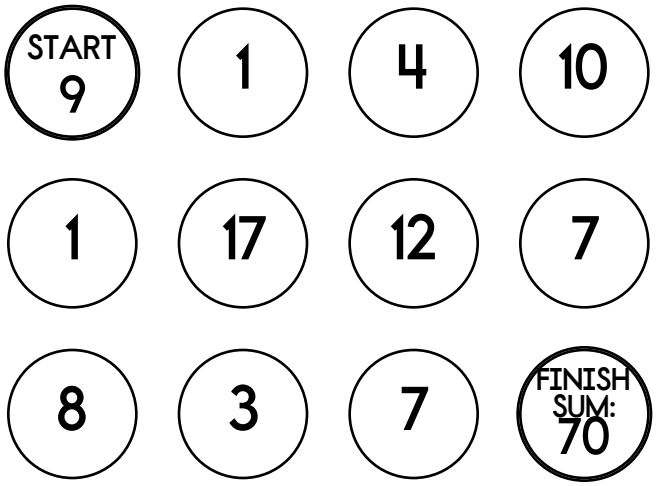
Name: _____

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



1 + 3 + 1 + 5 + 9 + 8 =

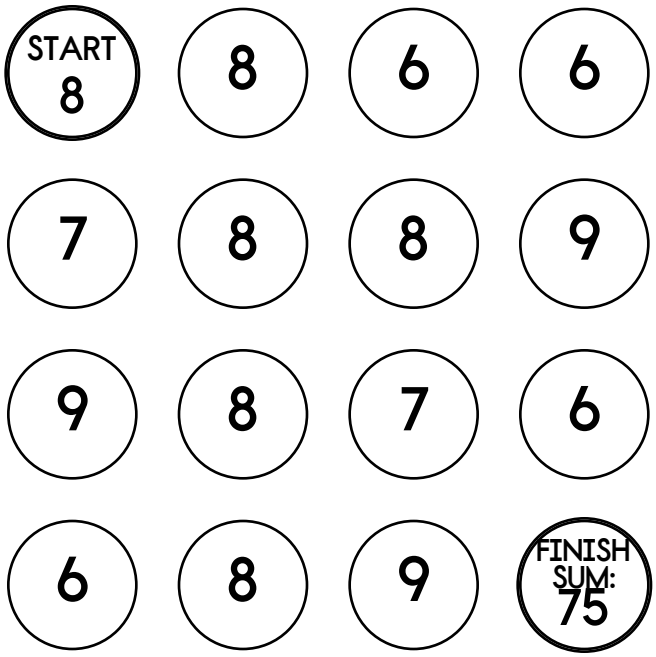
27



9 + 1 + 4 + _____ + _____ +

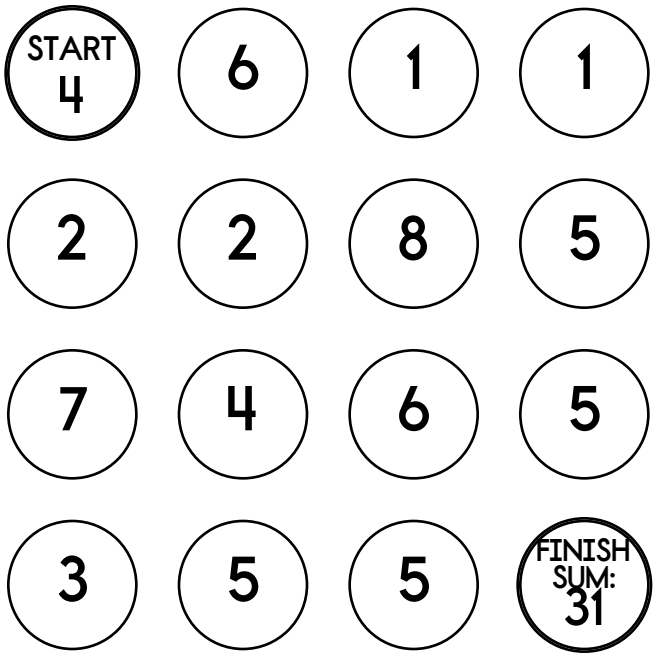
_____ + _____ + _____ + _____ =

70



8 + 8 + 6 + 6 + ___ + ___ +

___ + ___ + ___ + ___ = 75



Did you find a path? Write the equation.

Name: _____

In each group, circle the number that has the greatest value, and put a square around the number that has the least value.

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

How many meters are there in 56 kilometers?

Round 76,416 to the nearest hundred.

A rectangle is 59 cm on one side and 6 cm on another side. What is the perimeter?

36 + n = 51

What is the value of n?

It was 2 degrees above zero in the morning. By afternoon the temperature rose 23 degrees. How warm was it?

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

28 ÷ 4 =

How many inches are in 9 feet?

_____ inches

7 x 3 = _____

Name: _____

Circle all of the numbers that are greater than 6.4.

$\frac{26}{5}$ $\frac{17}{2}$ $\frac{111}{18}$ $6\frac{5}{8}$

$\frac{25}{4}$ $\frac{76}{12}$ $\frac{39}{5}$ $\frac{13}{2}$

$6\frac{1}{2}$ $\frac{33}{6}$ $\frac{24}{3}$ $\frac{39}{6}$

6.012 6.10 6.100 6.050

Find the sum of 16, 10, and 41.

2 + 3 + 6 =

$$\begin{array}{r} 1,141 \\ -\ \ 480 \\ \hline \end{array}$$

It was 95 degrees outside. What would the temperature be if it got 30 degrees colder?

$11 \div \frac{1}{7}$

F, I, G, J, _____, K, I, L,

J, M

72 ÷ 12 = _____

11 kg = _____ g

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

_____

Name: _____

Ten of the members of the Genealogy Club went on the field trip to the State Division of Vital Statistics. The other 20 members did their research in the library. What is the ratio of students that worked in the library to the total club membership?

Jenna went shopping for school supplies. She bought 12 pencils at 3 for $1, 2 packages of notebook paper at $1.17 each, and a notebook for $5.66. How much did she spend in all?

Last Tuesday a woman was rescued when her house was swept away by the river. She said she had been standing on her roof since 6:36 a.m. The rescuers took her off the roof at 3:13 p.m. How long had she been on the roof?

$$\begin{array}{r} 558 \\ -\ 448 \\ \hline \end{array}$$

Write an equation to represent this:

The difference between eighteen and six is twelve.

_____

7 x 6 =

$$\begin{array}{r} 42 \\ +\ 39 \\ \hline \end{array}$$

Circle the addition property for 58 + 19 = 19 + 58.

associative property

commutative property

1 lb = 16 oz

26 lb = _____ oz

$$\begin{array}{r} 64 \\ -\ 14 \\ \hline \end{array}$$

5 x 3 =

734 + 596 = _____

$$\begin{array}{r} 353 \\ +\ 482 \\ \hline \end{array}$$

Fill in the missing operations to complete this equation:

57 ____ 19 ____ 40 = 43

120 ÷ 12 = _____

Name: _____

For 522,692,000, write the digit that is in the ten thousands place.

_____

Anna and Maria are playing a number game.
Anna says 4. Maria replies that the answer is 8.
Anna says 6. Maria replies that the answer is 12.
Anna says 9. Maria replies that the answer is 18.
Anna says 11. Maria replies that the answer is 22.
Anna says 1. Maria is thinking. What number should Maria reply with?

Ava took three numbers greater than 1 and multiplied them. One number was five and the other number was twenty. Of course, she forgot the last number, but she remembered the product was 1300. Is this possible?

4 x 8 = _____

121 ÷ 11 = _____

9 x 5 =

3 x 2 = _____

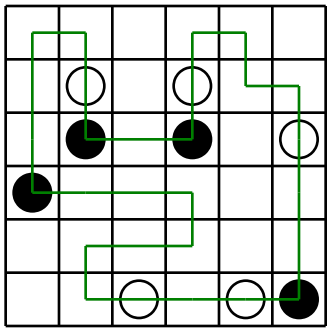
8,268 - 2,472 = _____

40 ÷ 10 = _____

18 ÷ 9 = _____

Pick a month. Can you make up a calendar for your month with five Wednesdays? Show your calendar below:

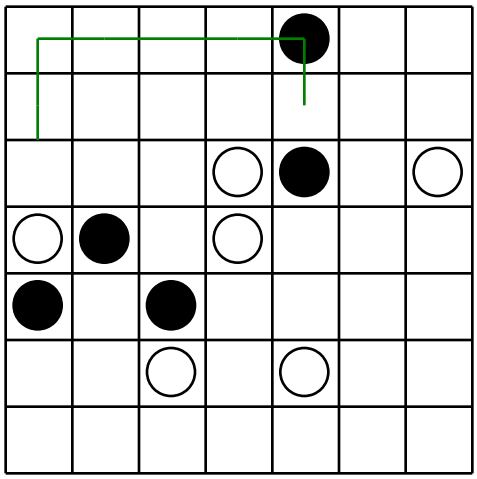
Name: _____



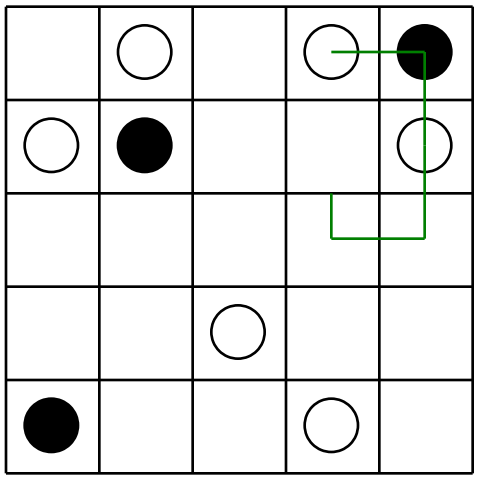
Can you draw ONE line going through ALL the circles? Your line can go left, right, up, or down. It cannot go diagonally. Your line cannot cross over any part of the line you have already drawn.
You MUST TURN in a BLACK circle. Do NOT TURN in a WHITE circle.

The puzzle on the left shows a correct line going through all the circles.

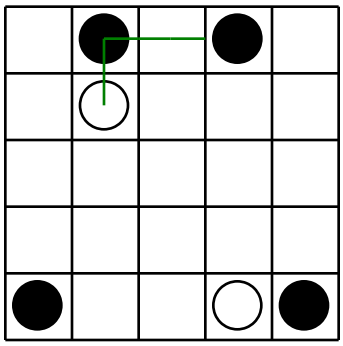
Finish the line:



Finish the line:



Finish the line:



6 x 2 = _____

Circle the greatest number:

6,952

143,780

92,054,863

7,286,495,130

12 ÷ 3 =

You have four digits to use in an addition problem: 1, 9, 2, and 5. Make up a problem where you have two 2-digit numbers. What is the largest sum you can make?

1,778 + 8,927 = _____

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

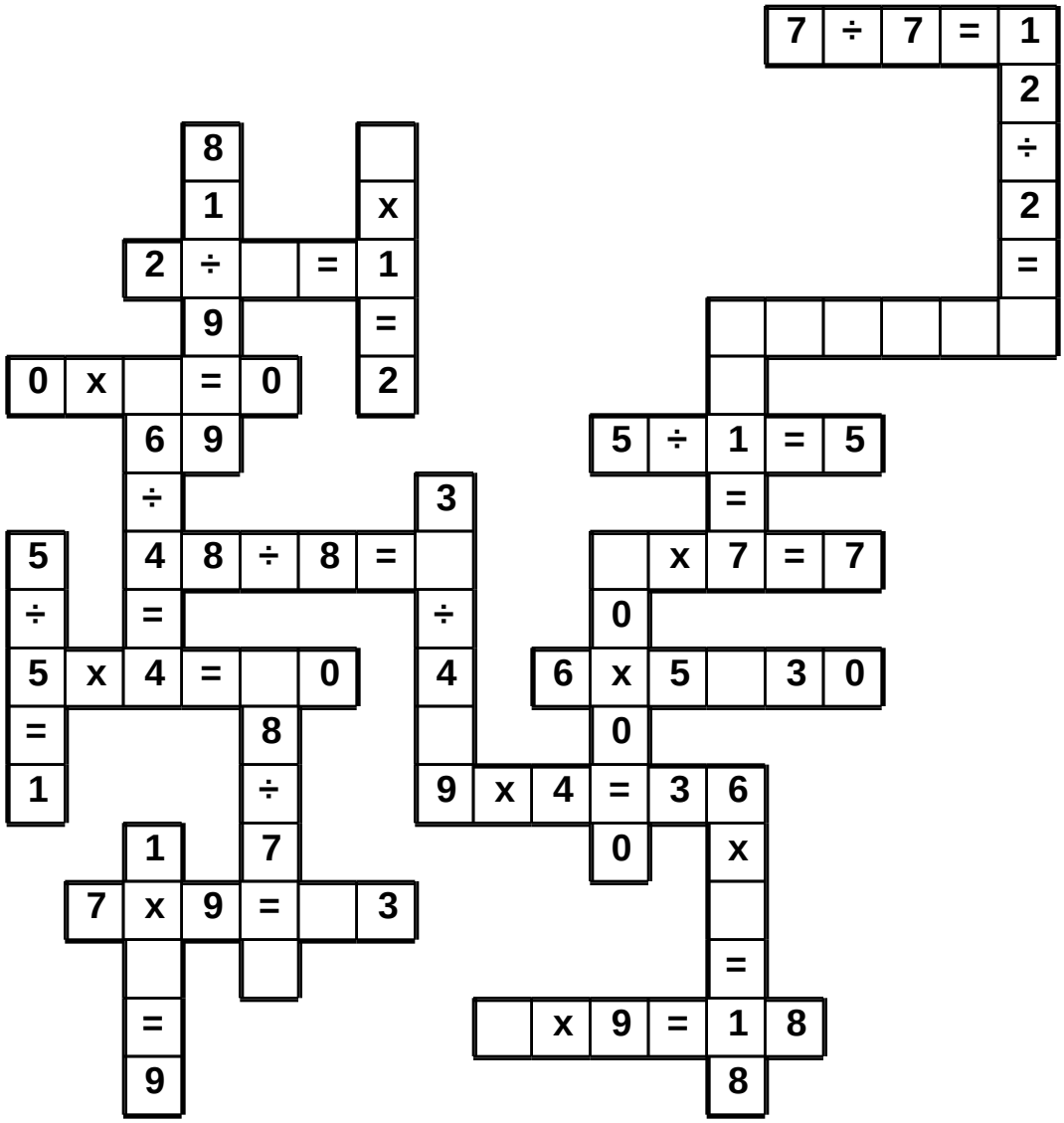
_____

49 ÷ 7 = _____

Name: _____

2 • 2 • 7 • x • 8 • = • 5 • 6 • 1 • x • 6 • 1 • 2 • = • = • 6
3 • 9 • 4 • 2

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



5,279 - 2,597 = _____

8,257 - 7,739 = _____

Write this as a number in standard form. Use a comma in your number.

four hundred sixty-one thousand, three hundred sixty-seven

_____

7,527 - 7,289 = _____

Name: _____

Joshua, Kayla, Rebecca, and Luis listed how much they weigh on a piece of paper (61 kg, 70 kg, 40 kg, and 55 kg)

Figure out how much each person weighs.
(Hint: The gravity factor is 0.38 on Mars, 0.907 on Venus, 1.125 on Neptune, 0.284 on Mercury, 0.041 on , 2.34 on Jupiter, 1 on Earth, 0.795 on Uranus, and 0.925 on Saturn).

1. On Mars, Rebecca would weigh 43.4 fewer kilograms.
2. Kayla and Joshua would weigh 113.6 kg altogether on Neptune.
3. Luis would weigh 15.6 kg on the first planet from the sun.

Joshua weighs _____ kg.

Kayla weighs _____ kg.

Rebecca weighs _____ kg.

Luis weighs _____ kg.

What Words? Your Words!

Fill in the boxes with letters to make words. Each box is worth points. Earn points by filling in as many boxes as you can. Sum up the points you earn for each word.

Make a Word	Sum
T E A C H E R S (1 2 4 6 10 14)	37
O A (1 2 4 8 14)	
A (1 2 4 6 8 12 18)	

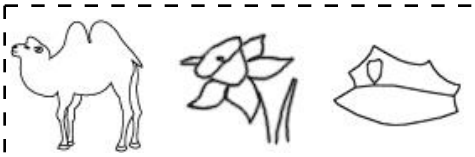
Make a Word	Sum
N O (1 2 6)	
R (1 2 4 6 8 14 20)	
U N (1 2 4 6 10 14)	

Name: _____

Draw 3 pictures in the correct order. Use each of the clues so you will know what to draw.

Draw 1 of these 3 pictures.
The picture IS in the correct spot.

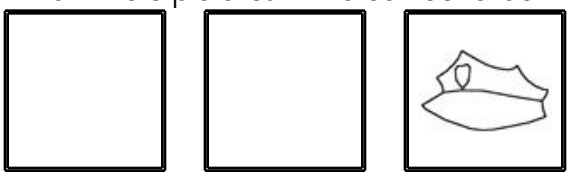
Draw 1 of these 3 pictures.
The picture IS in the correct spot.



Draw 1 of these 3 pictures.
The picture IS in the correct spot.

Draw 1 of these 3 pictures.
The picture IS in the correct spot.

Draw the 3 pictures in the correct order:

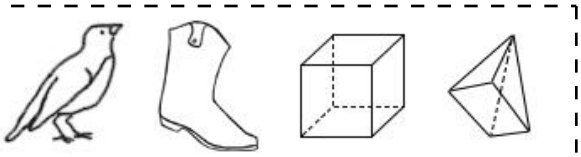


Draw 4 pictures in the correct order. Use each of the clues so you will know what to draw.

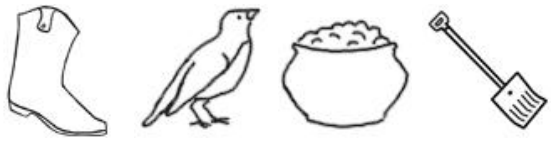
Draw 1 of these 4 pictures.
The picture is NOT in the correct spot.

Draw 1 of these 4 pictures.
The picture is NOT in the correct spot.

Draw 1 of these 4 pictures.
The picture is NOT in the correct spot.

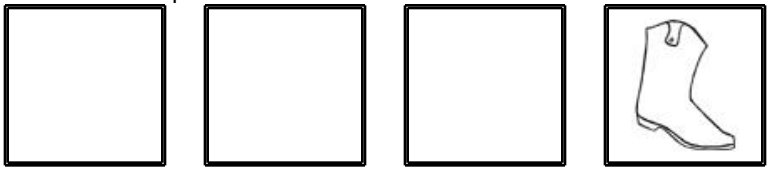


Draw 3 of these 4 pictures.
None of those pictures are in the correct spot.



Draw 1 of these 4 pictures.
The picture is NOT in the correct spot.

Draw the 4 pictures in the correct order:



Name: _____

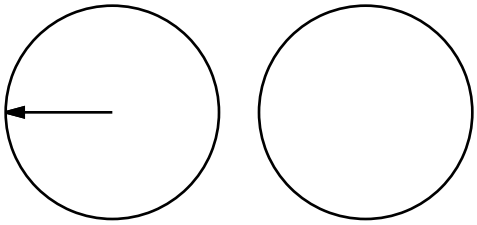
Here is a chart on turns to help you answer the questions.

A $\frac{1}{4}$ turn is 90°. A $\frac{1}{2}$ turn is 180°. A $\frac{3}{4}$ turn is 270°.

A full turn is 360°.

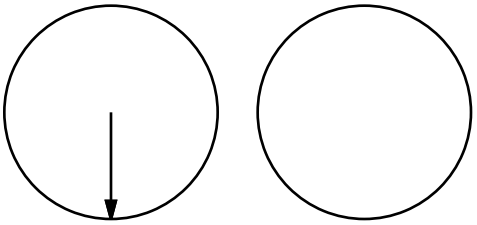
From the start position the pointer turns $\frac{3}{4}$ clockwise. Draw the arrow for the end position.

Start: End:



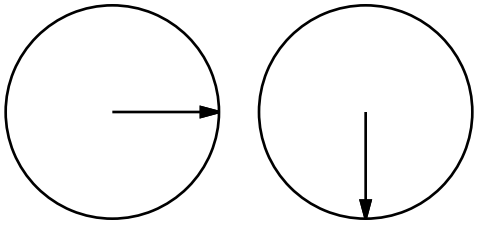
From the start position the pointer turns $\frac{3}{4}$ clockwise. Draw the arrow for the end position.

Start: End:



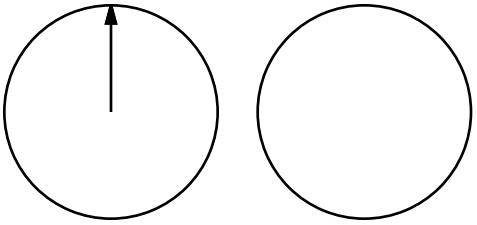
The start and end positions are shown. Explain the turn that was made.

Start: End:



From the start position the pointer turns 180° clockwise. Draw the arrow for the end position.

Start: End:



An angle that is 170 degrees is

between a ☐-turn and a ☐-turn.

Three right angles equals a ☐-turn.

Emily is playing a game. She stands in the middle of a circle.

At the start of the game she faces west.

Then she makes a $\frac{1}{4}$-turn counterclockwise.

In which direction is she now facing?

Name: _____

Find the greatest common factor for each pair of numbers.

8 and 6

Factors of 8 =

Factors of 6 =

GCF(8, 6) =

5 and 10

Factors of 5 =

Factors of 10 =

GCF(5, 10) =

The GCF of 4 and 12 is

Use the GCF to factor 4 - 12z

The GCF of 8 and 2 is

Use the GCF to factor 8r - 2

The GCF of 12 and 6 is

Use the GCF to factor 12 + 6y

The GCF of 25 and 30 is

Use the GCF to factor 25 + 30m

The GCF of 24 and 48 is

Use the GCF to factor 24z - 48

The GCF of 40 and 8 is

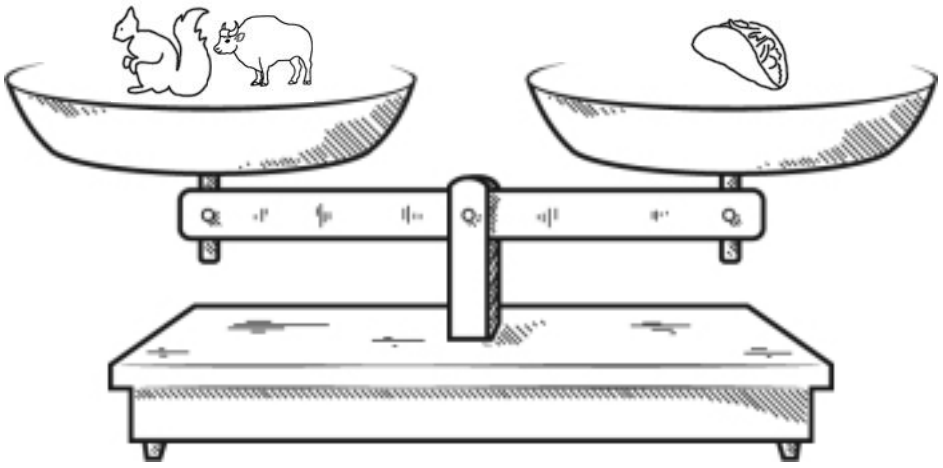
Use the GCF to factor 40 - 8k

Mary coded a program to see if 34s + 168 is equivalent to 3(17s + 84).

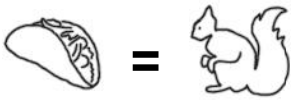
```
s = 5
equation1 = 34 * s + 168
equation2 = 3 * (17 * s + 84)
if equation1 == equation2:
   print ("They are equal.")
else:
   print ("They are not equivalent.")
```

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

Name: _____



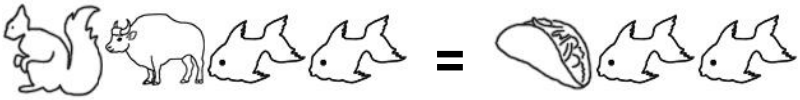
☐ True ☐ False



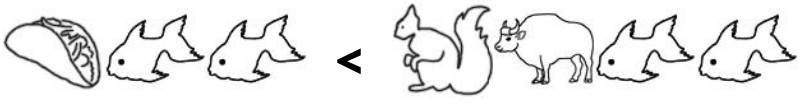
☐ True ☐ False

☐ True ☐ False

☐ True ☐ False



☐ True ☐ False



☐ True ☐ False

☐ True ☐ False

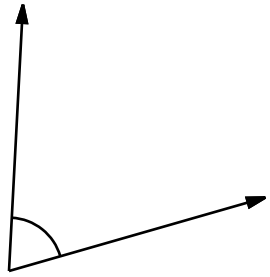
Did you find that three are true? If not, look again!

You should only mark TRUE if you are absolutely sure it is correct!

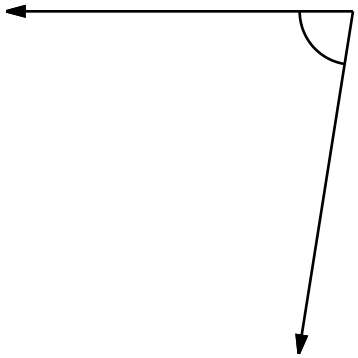
Name: _____

How large is the angle? First, make a guess and write your estimate in degrees.
Then, actually measure it to see how close your guess was.

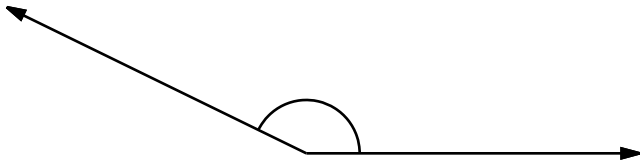
Hint: Try guessing between
66 and 78 degrees.



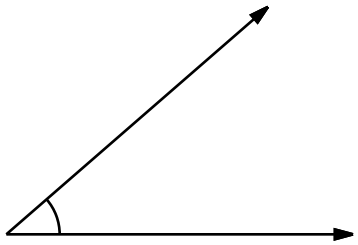
Guess first: _____ Measure: _____



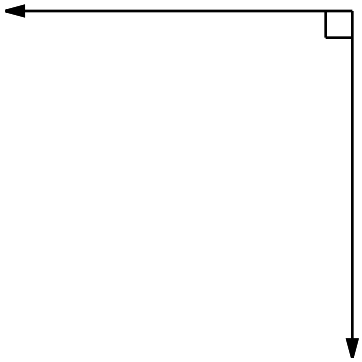
Guess first: _____ Measure: _____



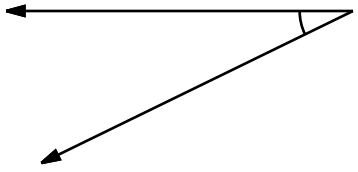
Guess first: _____ Measure: _____



Guess first: _____ Measure: _____



Guess first: _____ Measure: _____



Guess first: _____ Measure: _____

Name: _____

45% of 460 =

$\frac{45}{100}$ x 460 = 0.45 x 460 =

$$\begin{array}{r} 0.45 \\ \times\ 460 \\ \hline \end{array}$$

30% of 420 =

$\frac{30}{100}$ x 420 = 0.30 x 420 =

$$\begin{array}{r} 0.30 \\ \times\ 420 \\ \hline \end{array}$$

28% of 675 =

$\frac{28}{100}$ x 675 = 0.28 x 675 =

$$\begin{array}{r} 0.28 \\ \times\ 675 \\ \hline \end{array}$$

58% of 50 =

$\frac{58}{100}$ x 50 = 0.58 x 50 =

$$\begin{array}{r} 0.58 \\ \times\ 50 \\ \hline \end{array}$$

65% of 460 =

36% of 325 =

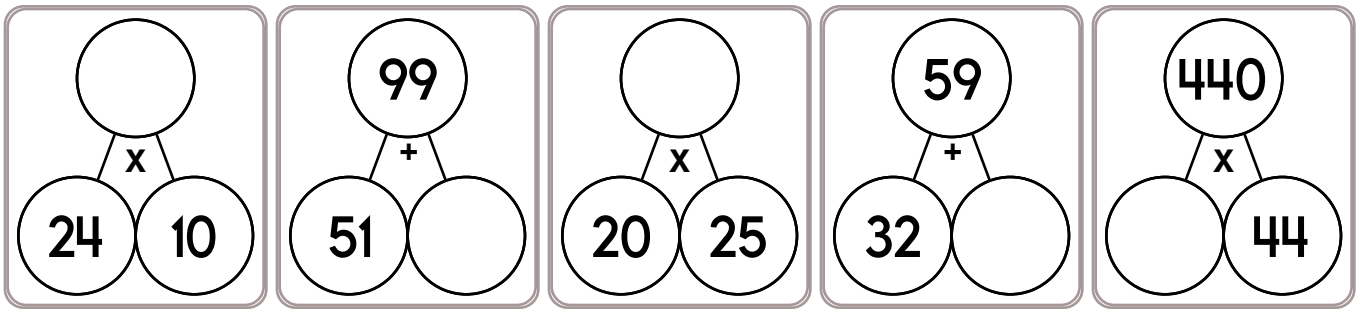
Name: _____

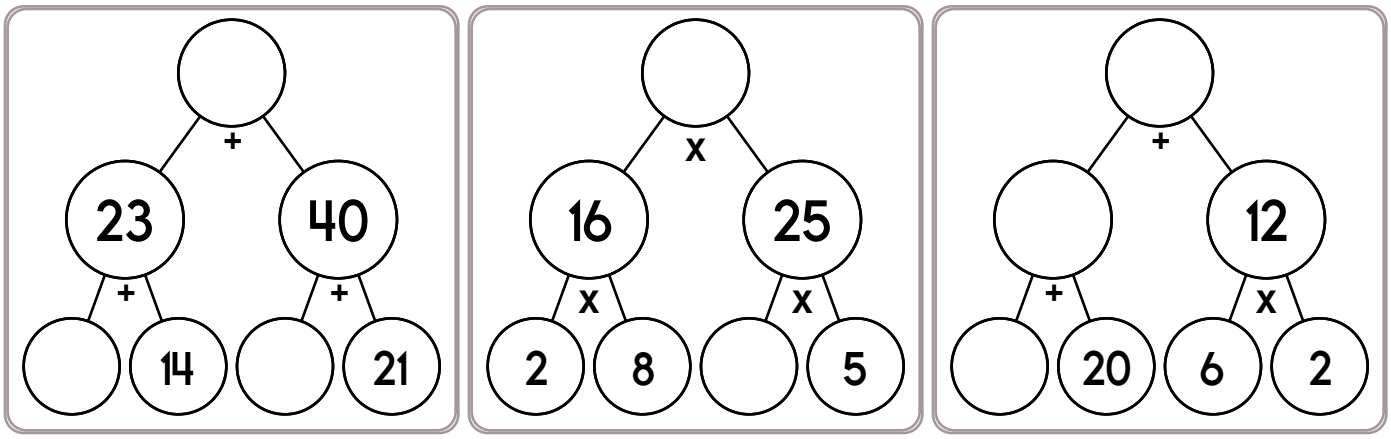
1062 = 213 + 849	715 = 424 + ___	834 = ___ + 670	834 = 164 + ___
1026 = ___ + 496	1332 = ___ + 823	1014 = 520 + ___	550 = ___ + 298

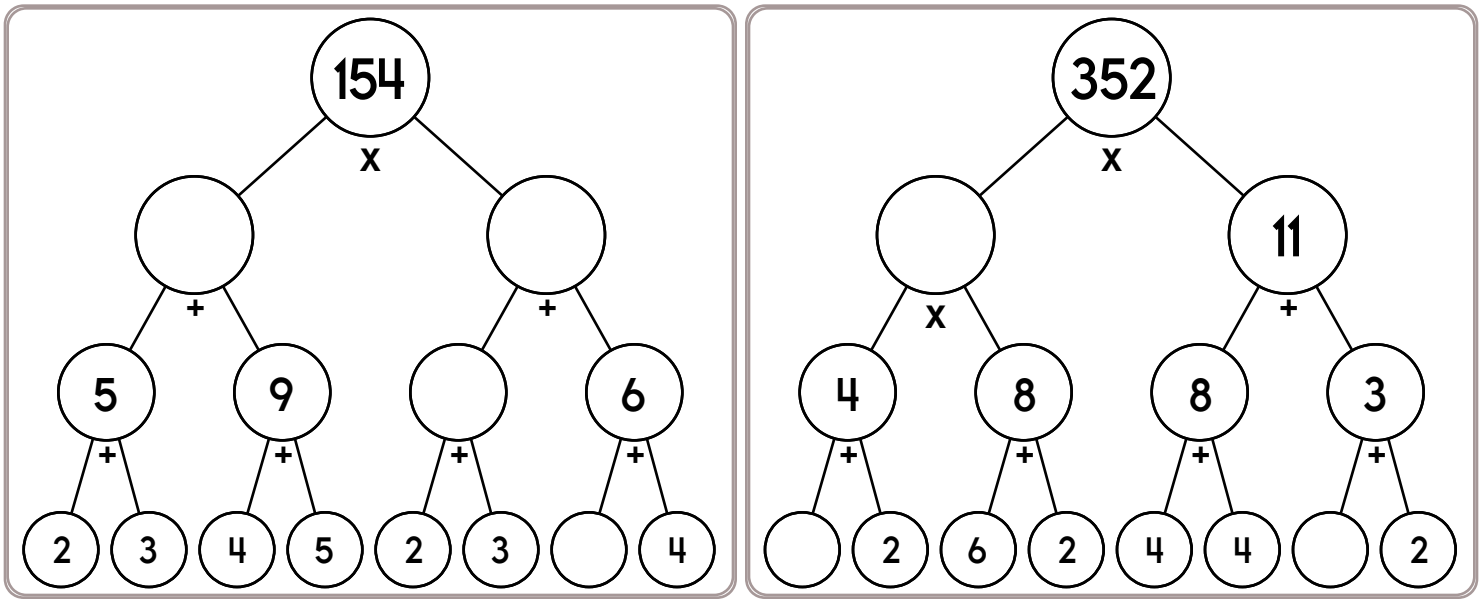
___ x 11 = 22	___ x 11 = 88	3 x ___ = 12
12 x ___ = 48	___ x 2 = 12	4 x ___ = 24
___ x 10 = 90	7 x ___ = 77	5 x ___ = 25
___ x 12 = 84	3 x ___ = 30	___ x 6 = 66

634 − 454 =	824 − 136 =	927 − 441 =	759 − 175 =	511 − 170 =
733 − 672 =	743 − 517 =	543 − 378 =	948 − 302 =	685 − 499 =

Name: _____







(8 + 14 + 15) =

Simplify.

$\frac{24}{56}$ =

5 x (42 ÷ 6) - 24 ÷ 8 =

word root **gen** can mean **origin** **progeny, genesis**

Name: _____

Write each number as a product of its prime factors.

45 3 x 3 x 5

25 _____

14 _____

21 _____

40 _____

24 _____

Write the least common multiple for each pair of numbers.

3 and 7

13 and 7

51 and 28

Find the value of each expression.

4^2 2^2

11^2 7^2

12^2 14^2

You may be surprised to learn that prime numbers are used for sending information securely over the internet. The internet uses computers, so they do this by multiplying two huge prime numbers. It is hard work. Here is a challenge for you. The number 34 is the product of two prime numbers. What are the two prime numbers?

Name: _____

Can you figure out the value of the letter?

$3g + 3 = 27$

first subtract 3 from both sides

then divide each side by 3

$3g + 3 - 3 = 27 - 3$

$3g = 24$

$3g \div 3 = 24 \div 3$

$g = \mathbf{8}$

Double check: $(3 \times \mathbf{8}) + 3 = 27$

$9h + 5 = 86$

first subtract 5 from both sides

then divide each side by 9

h = ___

Double check: (9 x ___) + 5 = 86

$6k - 14 = 40$

first add 14 to both sides

then divide each side by 6

k = ___

Double check: (6 x ___) - 14 = 40

$4a - 2 = 14$

first add 2 to both sides

then divide each side by 4

a = ___

Double check: (4 x ___) - 2 = 14

$7b + 1 = 57$

first subtract 1 from both sides

then divide each side by 7

b = ___

Double check: (7 x ___) + 1 = 57

$8d - 5 = 51$

first add 5 to both sides

then divide each side by 8

d = ___

Double check: (8 x ___) - 5 = 51

Name: _____

Find 2 equations hidden in each box. Good luck!

12 x 5 + 9

69

2

(6 + 7) - 9

(12 - 7) + 1

4

Write 2 equations: _____ _____

10 + (2 x 10)

1 + (4 + 1)

6

12 - 1 + 9

8 - 5 + 7

5

17

30

Write 2 equations: _____ _____

6 x 3 + 9

13

(4 - 3) + 1

29

27

5 + 1 + 7

Write 2 equations: _____ _____

Name: _____

Find 2 equations hidden in each box. Good luck!

(8 x 9) + 8

3

3 + 3 + 4

14

2 + 6 - 2

36

6

6 + 4 x 2

Write 2 equations: _____ _____

5 + 8 x 10

14

85

(10 + 10) - 2

8 - 7 + 8

9

Write 2 equations: _____ _____

9 - (3 + 5)

30

1

(10 + 10) - 5

5 x 6 x 1

9

Write 2 equations: _____ _____

Name: _____

4 km = _____ m

9 km = _____ m

5,300 m = _____ km

6,810 m = _____ km

10,701 m = _____ km

34 17 23 98
41 86 50 75 69
92 71 17 62 25
48 33 50 86

What is the ratio of even numbers to odd numbers?

What is the ratio of numbers less than 41 to numbers 41 or greater?

There are 13 gummies in each pack of Yummy Gummies.

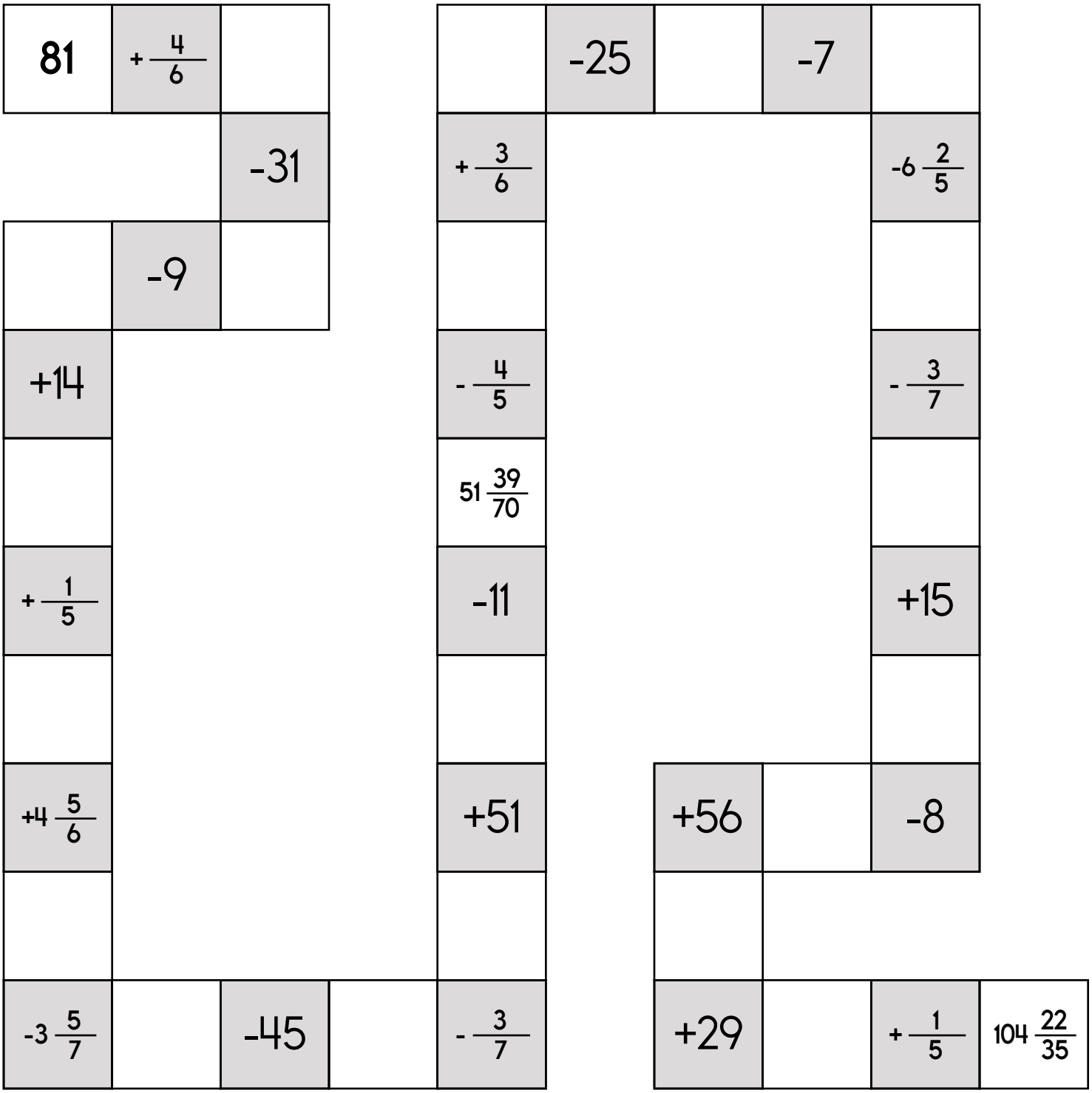
How many gummies are there in 3 packs?

How many gummies are there in 11 packs?

How many gummies are there in 45 packs?

Connor is playing a game. He has 8,700 hearts and 1,200 stars. He walks into the Ratio Outlet. The store sells things using a ratio of stars to hearts in the ratio of 29 hearts to 4 stars. He wants to buy an extra life, which costs 2,900 hearts. How many hearts and stars will he need to pay for the extra life?

Name: _____



Circle the digit in the hundredths place.

971.52

40 ÷ 4 =

6 x 4 = _____

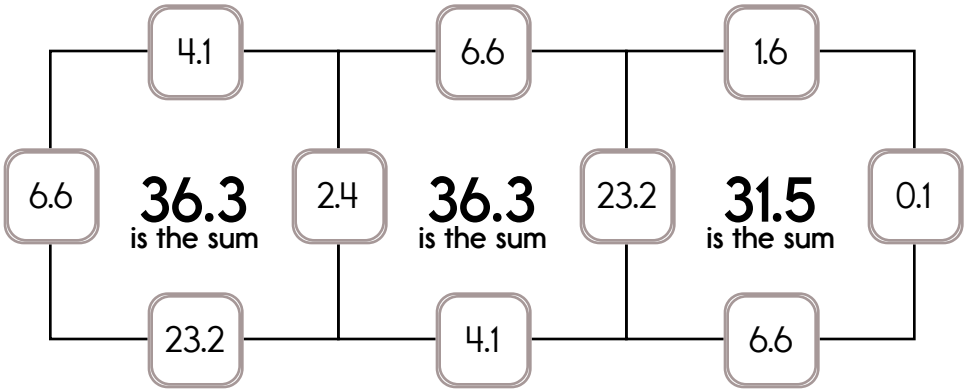
Name: _____

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

Example:
6.6 + 2.4 + 4.1 + 23.2 = 36.3

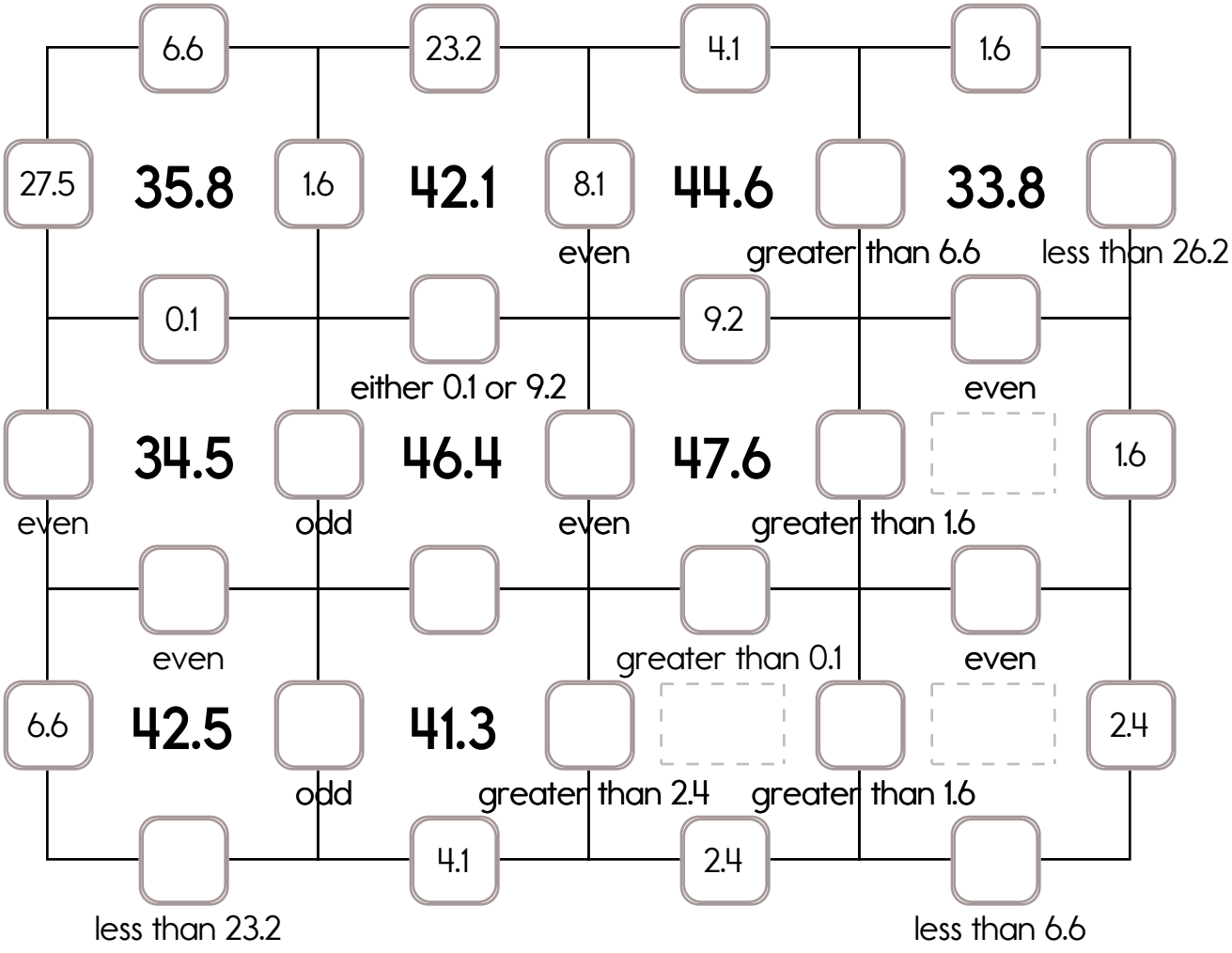
Example:
23.2 + 0.1 + 1.6 + 6.6 = 31.5

Sample:



Fill in the missing numbers. How? The sum of the four surrounding numbers is in the center of each square.

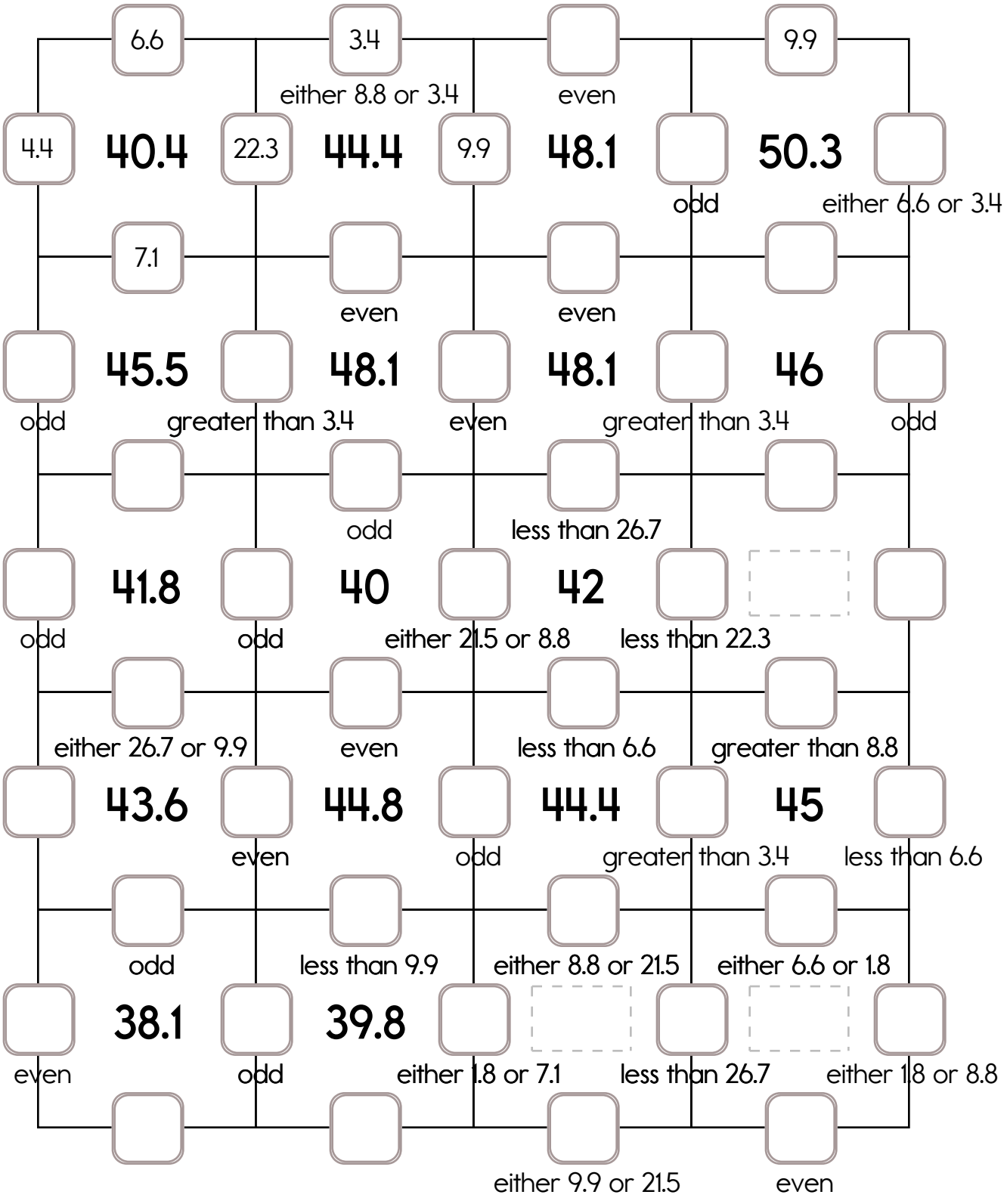
Exactly one of the four numbers has to be one of these numbers: 26.2, 23.2, or 27.5. The other three numbers have to all be DIFFERENT and must be from these: 4.1, 2.4, 6.6, 9.2, 1.6, 0.1, or 8.1.



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: 22.3, 26.7, or 21.5. The other three numbers have to all be DIFFERENT and must be from these: 9.9, 8.8, 3.4, 7.1, 1.8, 6.6, or 4.4.

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More history!
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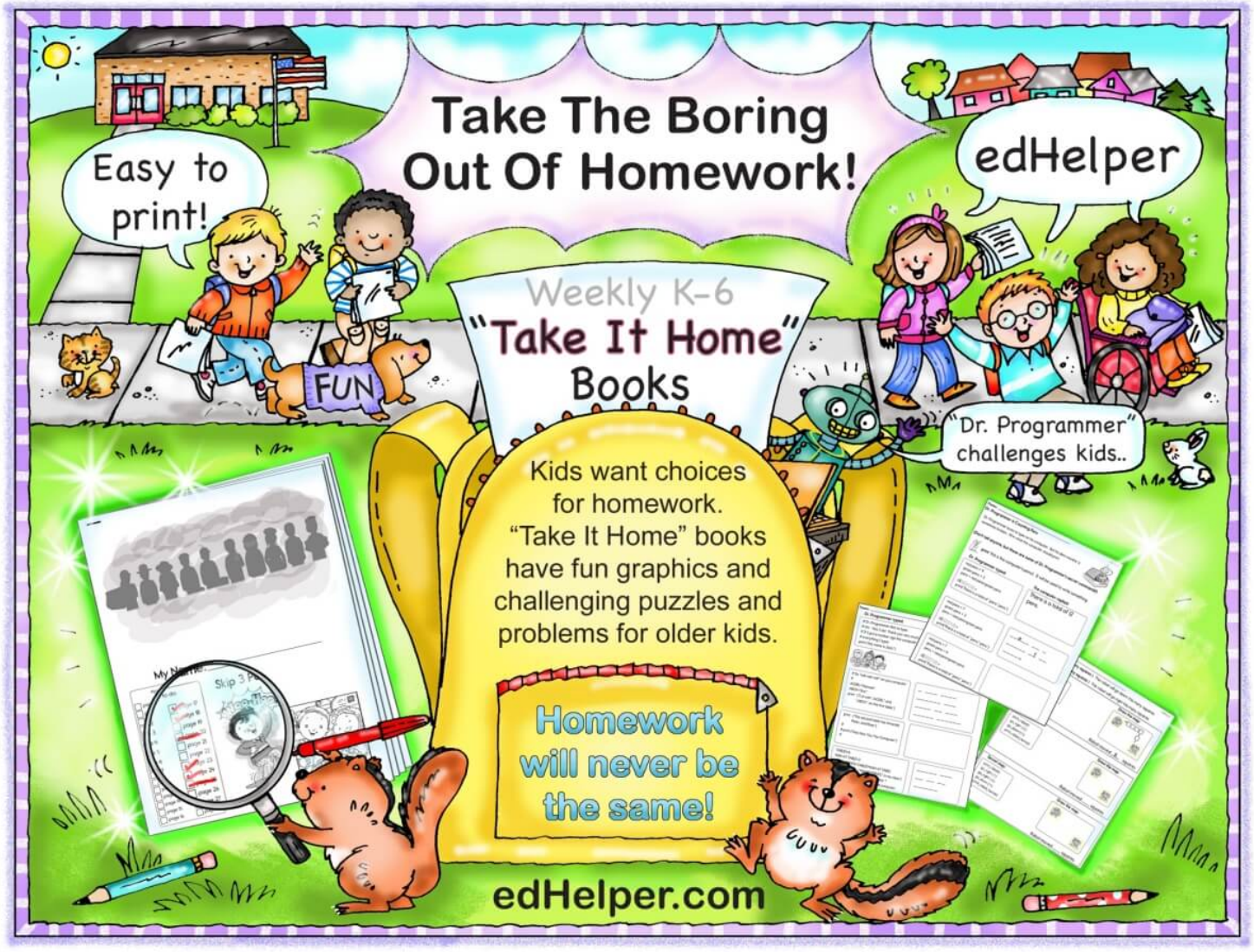
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