

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

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

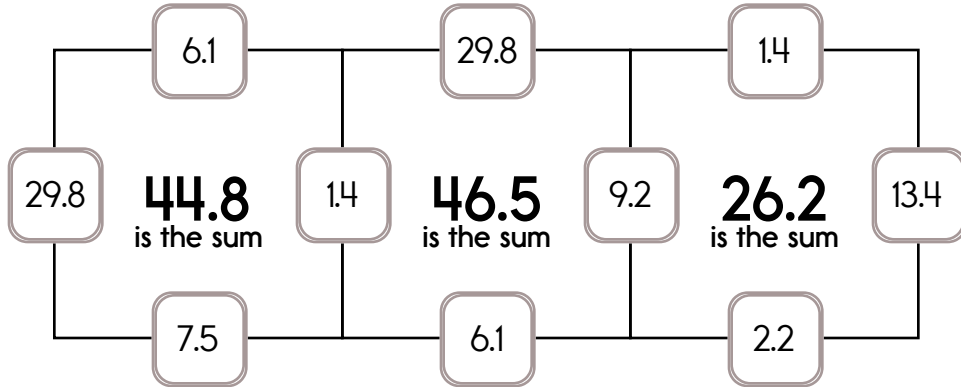
Example:

$$29.8 + 1.4 + 6.1 + 7.5 = 44.8$$

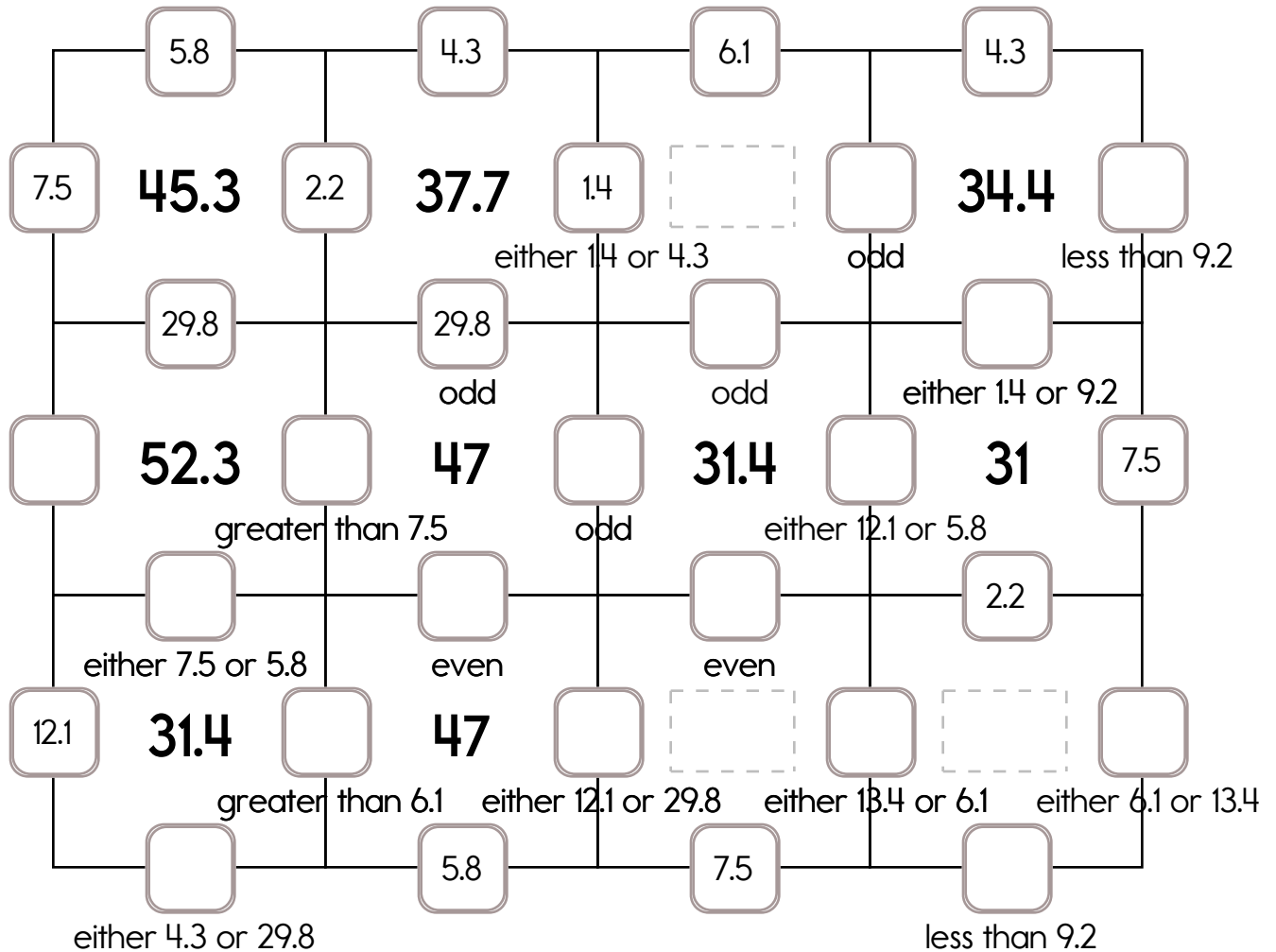
Example:

$$9.2 + 13.4 + 1.4 + 2.2 = 26.2$$

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: 13.4, 29.8, or 12.1. The other three numbers have to all be DIFFERENT and must be from these: 1.4, 2.2, 7.5, 5.8, 4.3, 6.1, or 9.2.



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: 11.1, 24.1, or 25.5. The other three numbers have to all be DIFFERENT and must be from these: 9.3, 4.7, 7.1, 2.4, 3.8, 0.2, or 1.6.

	2.4			3.8	
	either 9.3 or 4.7		odd		
4.7	<b>41.9</b>	25.5	<b>34.2</b>	1.6	<b>29.1</b>
	less than 3.8		7.1		odd
9.3					either 9.3 or 7.1
	either 24.1 or 2.4		24.1		odd
	even	<b>42.1</b>	<b>37.4</b>		<b>26.6</b>
	greater than 4.7				either 7.1 or 11.1
	odd		greater than 1.6	less than 2.4	even
4.7	<b>17.6</b>		<b>35.2</b>		<b>36.6</b>
	less than 25.5		greater than 4.7	odd	odd
	either 11.1 or 1.6		less than 25.5	odd	greater than 9.3
	<b>24.4</b>		<b>27.7</b>		<b>26.7</b>
	less than 3.8		greater than 3.8	either 25.5 or 11.1	even
					odd
	odd		either 0.2 or 4.7		odd
	<b>37.5</b>		<b>20.8</b>		
	either 3.8 or 24.1		less than 24.1	either 2.4 or 3.8	even
	greater than 0.2		odd	greater than 1.6	

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

Cross off the number that does NOT belong.

12, 11, 3, 26, 40, 69, 135, 244, 448, 827, 1519, 2794, 4386, 5140, 9453

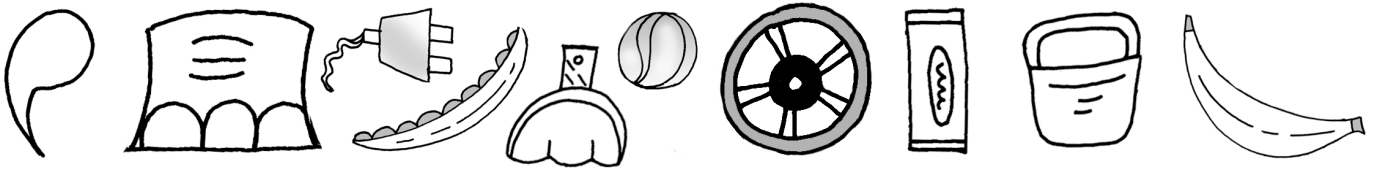
Why does \_\_\_\_\_ not belong in the pattern?

Cross off the number that does NOT belong.

 $14, 13, 14\frac{5}{25}, 13\frac{5}{25}, 14\frac{10}{25}, 13\frac{10}{25}, 14\frac{15}{25},$   
 $13\frac{15}{25}, 14\frac{20}{25}, 13\frac{22}{25}, 13\frac{20}{25}, 15, 14$ 

There are two ~~Why does~~ \_\_\_\_\_ not belong in the pattern?  
 both.

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



Find the hidden objects.



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

Rewrite the fraction in simplest form.

$$\frac{5}{15} =$$

Skill: Basics of Fractions and Mixed Numbers

Which is equal to  $9r = 17$ ?
☐ nine divided by r is seventeen

☐ nine plus r is seventeen

☐ nine times r is seventeen

Skill: Algebra

Multiply. Answer needs to be in simplest form.

$$\frac{1}{9} \times \frac{4}{8} =$$

$$\frac{\boxed{\phantom{000}}}{72} = \frac{\boxed{\phantom{000}}}{18}$$

Skill: Fractions and Mixed Numbers (multiplication/division)

Multiply. You do not need to simplify.

$$\frac{3}{6} \times \frac{5}{8} =$$

$$\frac{15}{\boxed{\phantom{000}}}$$

Skill: Fractions and Mixed Numbers (multiplication/division)

Circle the three prime numbers.

There may be multiple answers.

☐ 5    ☐ 13    ☐ 35    ☐ 37

Skill: Whole Numbers, Factors, and Prime Numbers

Compare the numbers. Write  $>$ ,  $<$ , or  $=$ .

-7 \_\_\_\_\_ 0

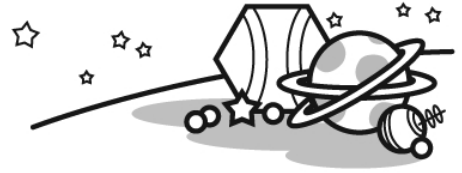
1 \_\_\_\_\_ -1

6 \_\_\_\_\_ -2

Skill: Positive and Negative Numbers

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

Invent a sport for aliens with more than two arms, more than two legs, and many eyes. Describe the sport!



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Draw a picture of your alien doing your sport!

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

What is the greatest common factor of 28 and 10?

$$476 = 28y$$

$$\frac{N}{2} = 5$$

What is the least common multiple of 3 and 6?

$$28 \div \underline{\quad} = 4$$

What is the missing number?

$$10 \div N = 2$$

What is the value of N?

$$2y = 18$$

Write all the factors for the number 38.

What is the greatest common factor of 8 and 12?

What is the least common multiple of 8 and 10?

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

Amy tosses a number cube with the numbers 1 through 6 on it. She tosses it again, takes the sum, and moves that many spots on a board game. What is the probability that she moves exactly eight spaces?

Hunter brought a bucket of pennies, nickels, dimes, and quarters to class. He wrote instructions on task cards. On the first card he wrote, "Make 68 cents from 3 coins." On the second card he wrote, "Make 75 cents from 3 coins." He gave one card to Max, and he gave the other card to Gavin.

Max and Gavin figured out the coins to use and showed them. Apparently Gavin counted wrong because his card's task was not possible. Which card did he get and why?

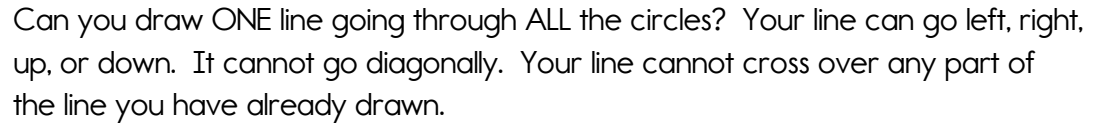
1	2	3	4	5	6
12	11	10	9	8	7
13	14	15	16	17	18

A pattern is represented in the boxes. The number 16 is in row 3, column 4.

- If the pattern continues, in which column is 25?
- If the pattern continues, in which column is 54?
- If the pattern continues, in which column is 219?

Holly is playing Pretend World on her phone. She is at the shop and wants to buy some star sprinkles. The shop sells five sprinkles for \$16.91 or thirty sprinkles for \$95.46. Holly wants to figure out which is the better offer, but she doesn't know division. Show her which is the better deal and explain why.





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

A 10x10 grid with the following elements:

- Black Circles:** Located at (row, column) coordinates (1, 6), (2, 9), (4, 4), (5, 2), and (7, 1).
- White Circles:** Located at (2, 5), (3, 1), (5, 7), and (8, 9).
- Green Path:** A continuous line starting at (1, 6), moving right to (1, 9), then down to (2, 9).

A 5x5 grid with the following features:

- A black dot is located at row 2, column 4.
- A green path starts at row 4, column 2 and moves left to row 3, column 2.
- White circles are located at row 4, column 1; row 3, column 1; row 2, column 1; and row 1, column 1.

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

For 40,055,582,236, write the digit that is in the ten thousands place.

A bike originally priced at \$120 is marked down by 20%. What is the sale price?

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

# Valentines from the Heart

By Jody Williams

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One morning in February, Katie walked into her classroom. She saw her morning assignment on the front board. It said, "Create a valentine for someone special." Katie thought that should be easy. She had a lot of special people in her life. Just then Katie remembered someone who could really use a valentine wish. Eli was Katie's cousin. He was just about the same age as Katie, just a few weeks older. He was very sick. He was in the hospital. Katie could not visit Eli in the hospital, so she sent pictures she made or letters that she wrote. Katie found some construction paper and began to make the biggest and best valentine that she could. Katie's friend Jill noticed her valentine. She asked who it was for. Katie told Jill about Eli. Jill then decided to make a valentine for Eli, too. Ryan saw Jill's card and asked who she was giving it to. Jill told him about Eli. Ryan decided to make a card for Eli, too. This continued through the whole class. Just then, the teacher told the class that time was up. She asked for volunteers to share their cards and tell who they were for. Katie went first. Jill went next and then Ryan. By the time everyone in the class had shared, Katie had a big smile on her face. Eli was going to get twenty happy valentine wishes this year.



Valentines from the Heart

## Questions

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\_\_\_\_\_ 1. *She had a lot of special people in her life.* What is a synonym for *special*?

- A. extraordinary
- B. ordinary
- C. mean
- D. none of the above

\_\_\_\_\_ 2. How does Katie know Eli?

- A. They are neighbors.
- B. They are on the same soccer team.
- C. They are cousins.
- D. They are in the same class.

3. Why did Katie choose to make a card for Eli?

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4. What happened as more people in Katie's class heard Eli's story?

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

- \_\_\_\_\_ 5. *Eli was going to get twenty happy valentine wishes this year.* What is an antonym for *happy* in this sentence?
- A. joyful
  - B. joyous
  - C. merry
  - D. sad

What is the least common multiple of 5 and 6?

$$\frac{N}{2} = 2$$

What is the least common multiple of 11 and 15?

$$22m = 506$$

$$7n = 42$$

$$23m = 644$$

$$12 \times \underline{\quad} = 96$$

What is the missing number?

$$11 \times N = 121$$

What is the value of N?

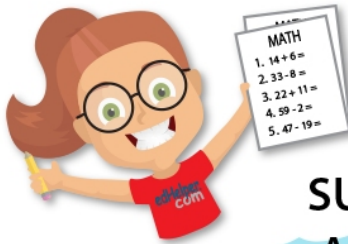
$$12n = 120$$

Write all the factors for the number 27.

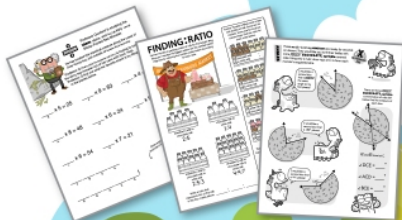
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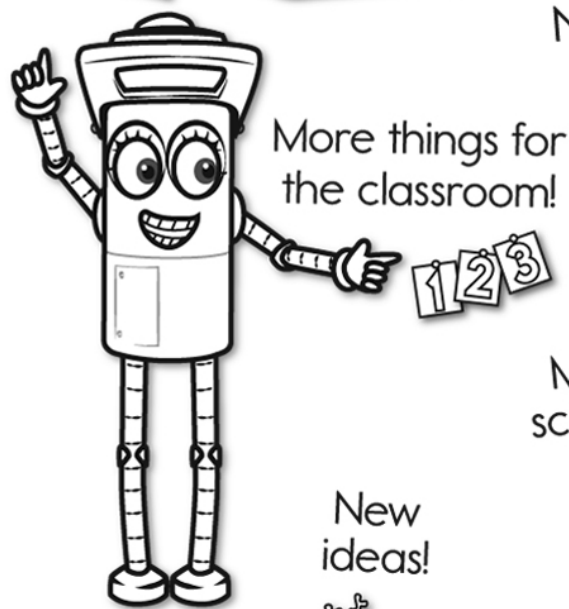
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