

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



## Math Buzz

Landon and Maxwell each have a sports card collection. Landon has  $\frac{1}{4}$  as many cards as Maxwell. Who has more sports cards? Explain.

\_\_\_\_\_

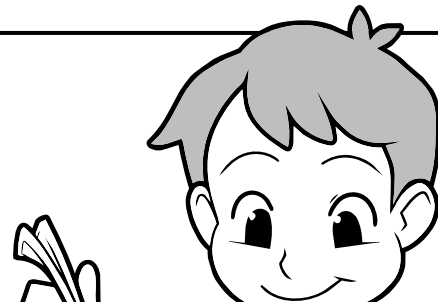
\_\_\_\_\_

Find the quotient.

$$3,204 \div 18 =$$

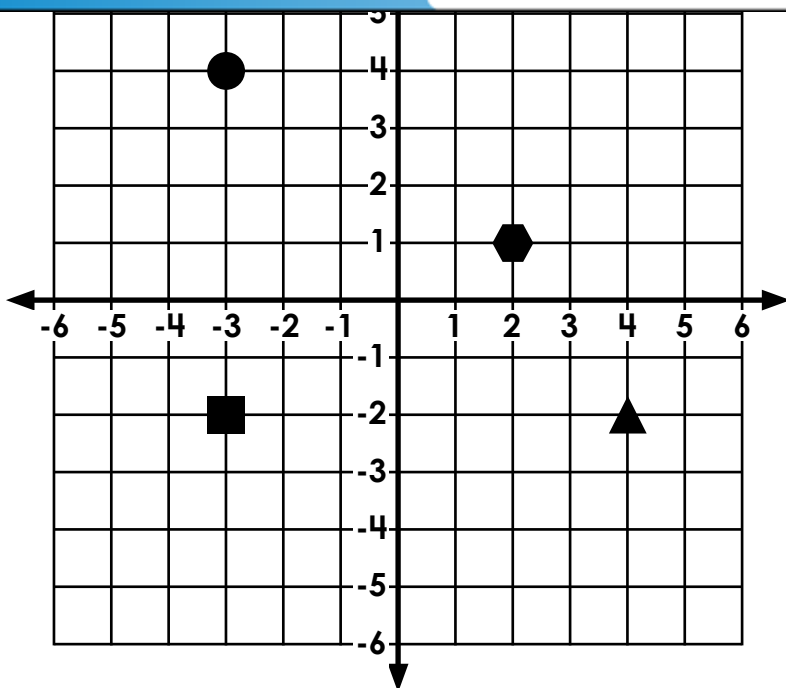
Round to the nearest  
whole number.

$$2.89 \quad \underline{\hspace{2cm}}$$



# Preview

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\_\_\_\_\_

What shape is in Quadrant IV?

\_\_\_\_\_

\_\_\_\_\_

What shape is in Quadrant III?

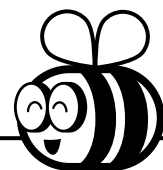
\_\_\_\_\_

\_\_\_\_\_

What shape is in Quadrant II?

\_\_\_\_\_

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



## Math Buzz

What is the name of a polygon that always has four sides of equal length?

\_\_\_\_\_

What is the name of a different polygon that always has four sides of equal length?

\_\_\_\_\_

Evaluate the expressions if  $w = 6$ .

$$36 \div w = \underline{\hspace{2cm}}$$

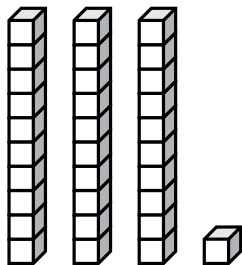
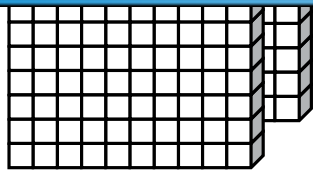
$$w - 4 = \underline{\hspace{2cm}}$$

Naya is creating a rectangular prism. The base of her prism is shown below. She plans to have a height of 6 cubes.



# Preview

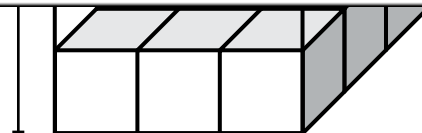
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2.31

3.47

$$2.31 + 3.47 = \underline{\hspace{2cm}}$$



What will the volume of the completed figure be?

\_\_\_\_\_

Is this number equal to the length times the width times the height? Explain.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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

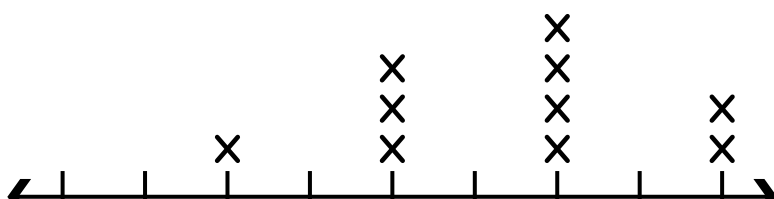


# Math Buzz

Chef Pulaski is teaching his pastry students how to make buttercream frosting. The line plot below shows the students' guesses for the number of sticks of butter they will use.

**Amount of Butter**

key: X = 1 guess



Select all the composite numbers.

- ☐ a 2
- ☐ b 4
- ☐ c 5
- ☐ d 6
- ☐ e 8
- ☐ f 11
- ☐ g 14



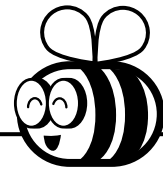
# Preview

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Avery and Marche made signs to bring to their school's track meet. They both cut 1 square meter poster boards. Avery cut her poster board so that the length of the top and bottom are  $\frac{2}{3}$  meter and the length of the sides are  $\frac{3}{4}$  meter. Marche cut her poster board so that the lengths of the top and bottom are  $\frac{3}{4}$  meter and the length of the sides are  $\frac{2}{3}$  meter.

Draw a diagram of each poster board in relation to its original size.

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

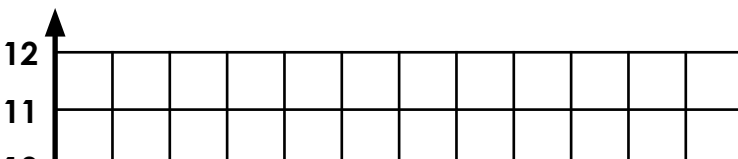


# Math Buzz

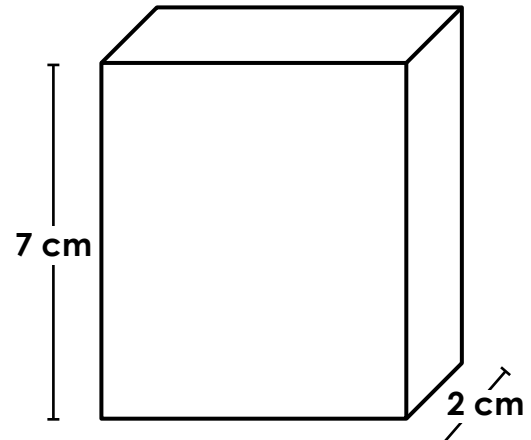
Use the rule to complete the input/output table. Then graph the input/output pairs from the table.

**Rule:** subtract 3

| Input (x)  | 11 | 10 | 9 | 8 |
|------------|----|----|---|---|
| Output (y) |    |    |   |   |

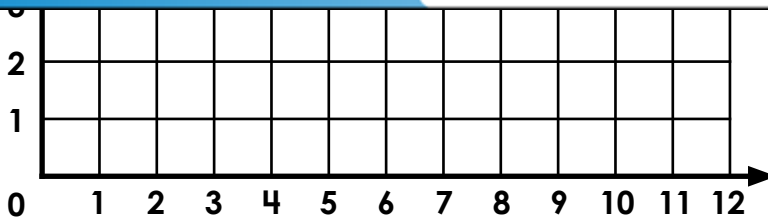


What is the volume, in cubic centimeters, of the rectangular prism?



# Preview

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What would the value of the output be if the input was 5? \_\_\_\_\_

$$u = 6$$

$$u = 5$$

$$u - 17 = 5$$

$$u = 22$$

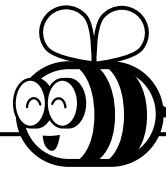
$$u = 25$$

Is it **always** true that when you multiply a whole number greater than zero by a fraction greater than 1, the product is always greater than the number? Explain. Use an example in your explanation.

\_\_\_\_\_

\_\_\_\_\_

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## Math Buzz

Use the terms in the word bank to complete the sentences. Terms may be used more than once.

integers      rational numbers

\_\_\_\_\_ are numbers that can be written as a fraction where both the numerator and denominators are \_\_\_\_\_ with non-zero denominators.

Positive and negative whole numbers, but not

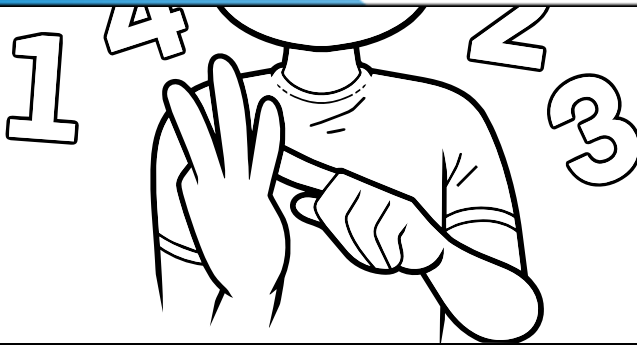
Evaluate the expression.

$$\frac{4^2 + 6(8)}{2^3} = \underline{\hspace{2cm}}$$

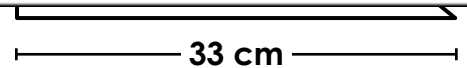
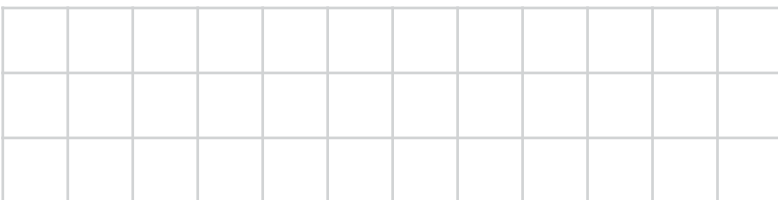


# Preview

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Use the graph paper below to draw and label a number line from -5 to 5.



What is the area, in square centimeters, of the right triangle?  
Use the formula  $A = \frac{1}{2}bh$  to calculate the answer.



Landon and Maxwell each have a sports card collection. Landon has  $\frac{1}{4}$  as many cards as Maxwell. Who has more sports cards? Explain.

**Makswell has more cards because when you multiply a whole number by a fraction the product is less than the whole number.**

Find the quotient.

$$3,204 \div 18 = 178$$

Round to the nearest whole number.

$$2.89 \rightarrow 3$$

$$14.249 \rightarrow 14$$

$$0.08 \rightarrow 0$$

$$0.71 \rightarrow 1$$

What shape is in Quadrant I?

**hexagon**

What shape is in Quadrant IV?

**triangle**

What shape is in Quadrant III?

**square**

What shape is in Quadrant II?

**circle**

What is the name of a polygon that always has four sides of equal length?

**square or rhombus**

What is the name of a different polygon that always has four sides of equal length?

Evaluate the expressions if  $w = 6$ .

$$36 \div w = 6$$

$$w - 4 = 2$$

$$8 \times w = 48$$

$$w + 49 = 55$$

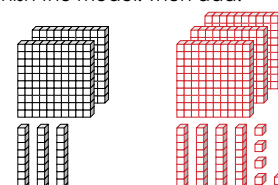
What will the volume of the completed figure be?

**54 cubic units**

Is this number equal to the length times the width times the height? Explain.

**Yes, because  $3 \times 3 \times 6 = 54$ . This**

Finish the model. Then add.

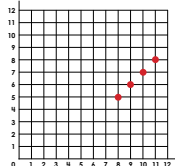




## Preview

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|            |    |    |   |   |
|------------|----|----|---|---|
| Input (x)  | 11 | 10 | 9 | 8 |
| Output (y) | 8  | 7  | 6 | 5 |



What would the value of the output be if the input was 5? **2**

What is the volume, in cubic centimeters, of the rectangular prism?

$$6 \times 2 \times 7 = 84$$

**84 cubic centimeters**

What value of  $u$  is a solution to each equation?

$$9 = u + 4$$

$$u = 6$$

$$u = 5$$

$$u - 17 = 5$$

$$u = 22$$

$$u = 25$$

Is it **always** true that when you multiply a whole number greater than zero by a fraction greater than 1, the product is always greater than the number? Explain. Use an example in your explanation.

**Answers will vary but should indicate it is always true.**

**Rational numbers** are numbers that can be written as a fraction where both the numerator and denominators are **integers** with non-zero denominators.

Positive and negative whole numbers, but not fractions, are **integers**.

Evaluate the expression.

$$\frac{4^2 + 6(8)}{2^3} = 8$$

$$\frac{16 + 6(8)}{8} = \frac{16 + 48}{8} = \frac{64}{8} = 8$$

What is the area, in square centimeters, of the right triangle? Use the formula  $A = \frac{1}{2}bh$  to calculate the answer.

$$\frac{1}{2}(33)(27) = 445.5$$

**445.5 square centimeters**

Use the graph paper below to draw and label a number line from -5 to 5.

