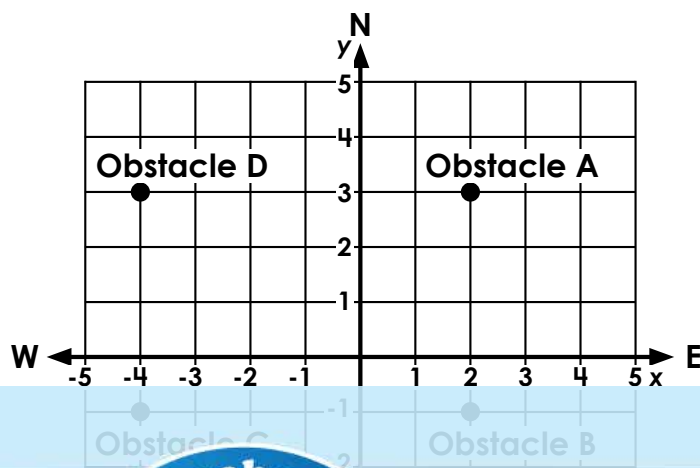


Name: _____



Math Buzz

Mrs. Vargas, a gym teacher, creates an obstacle course for her students. She plots the locations of four obstacles on the coordinate plane shown below.



Aleah bought a hoodie with her debit card without checking her account balance first. Her checking account balance is now -\$27.

What is the size of her debt related to 0?
How would Aleah get her checking account out of debt?



Preview

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2 yards. A student starts at Obstacle A, runs south to Obstacle B, runs west to Obstacle C, and then runs north to Obstacle D. What is the total distance, in yards, the student runs from Obstacle A to Obstacle D?

answer: _____

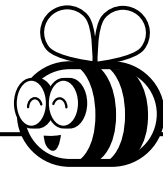
2	\$7.00	
5		
7		
9		

Theo used a 9-yard piece of ribbon for an art project. He cut the ribbon into equal $\frac{1}{4}$ yard pieces. If he used all the ribbon, how many pieces of ribbon did Theo cut?

answer: _____



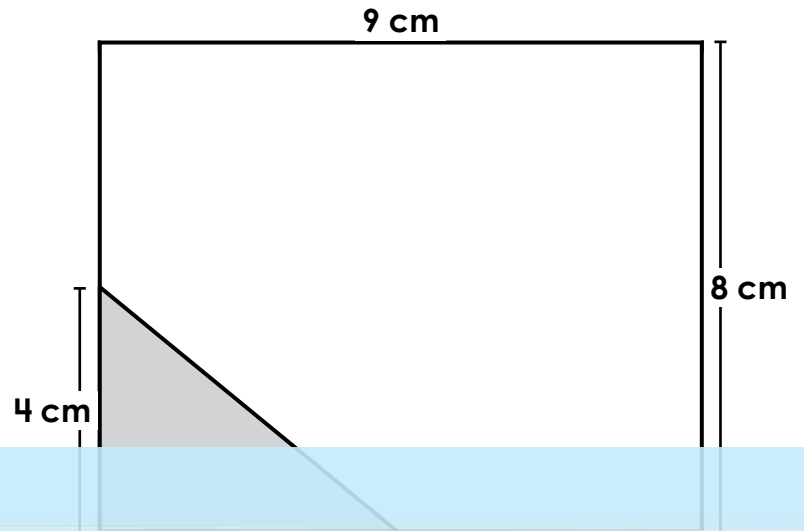
Name: _____



Math Buzz

5 students want lemonade and 18 students want sweet tea for their lunch order. What is the ratio of the number of students who want lemonade to the number of students who want sweet tea?

The figure shows a shaded triangle within a rectangle.

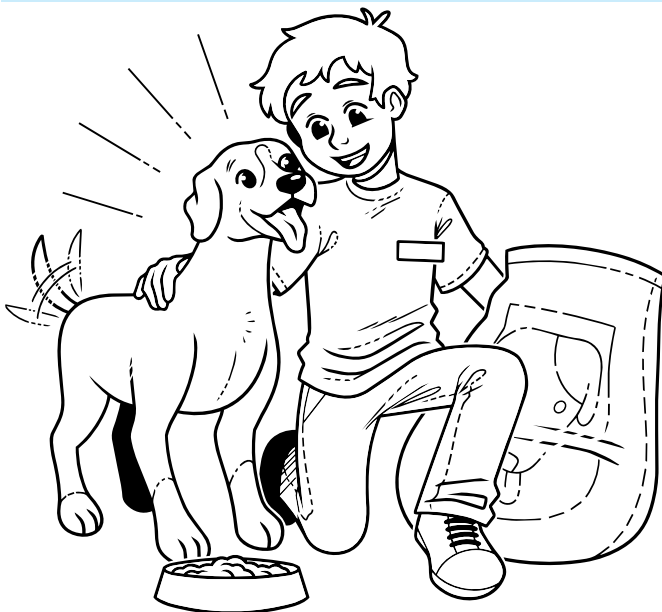


At the beginning of the year, a local



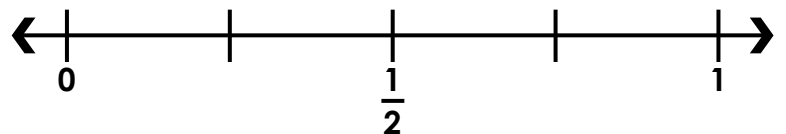
Preview

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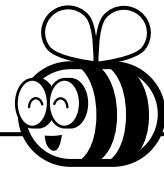
answer: _____

Use the model to find the quotient.



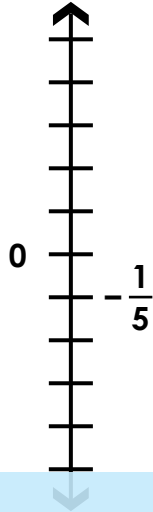
$$\frac{1}{2} \div 2 = \underline{\hspace{2cm}}$$

Name: _____



Math Buzz

A number line with 0 and $-\frac{1}{5}$ is labeled.



Emoni and Zaya are cutting paper to make origami swans. They need $\frac{1}{2}$ of a sheet of paper to make each swan. If they have 5 sheets of paper, how many swans can they make? Draw a model to support your answer.



Preview

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$$\begin{array}{r}
 2 \quad \square \quad 2 \\
 - 2 \quad 5 \quad \square \\
 \hline
 2 \quad \square \quad 4 \\
 - \square \quad 5 \quad 6 \\
 \hline
 8 \quad \square \\
 - \square \quad 4 \\
 \hline
 1 \quad \square \quad 0 \\
 - \square \quad 6 \quad 0 \\
 \hline
 \square
 \end{array}$$

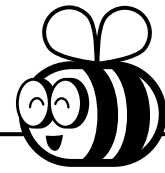
representation of the expression $\frac{12}{x}(4k)$.

Riley represents the expression as the product of 12 and x times the product of 4 and k .

Jahaan represents the expression as the quotient of 12 and x times the sum of 4 and k .

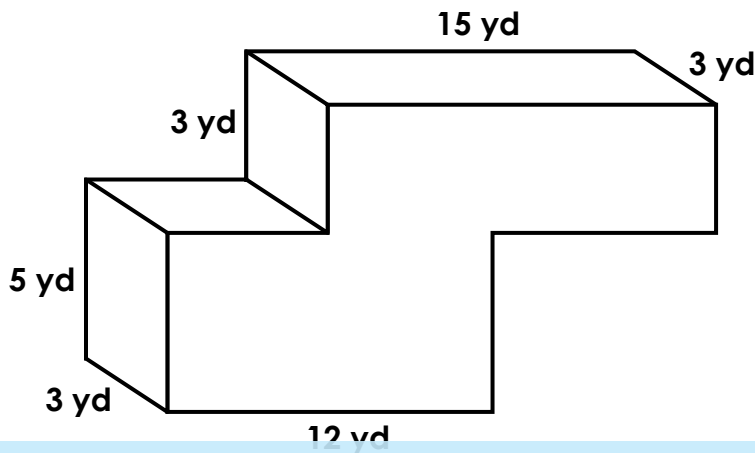
Are they correct? Explain.

Name: _____



Math Buzz

Two right rectangular prisms were combined to make the figure shown.



Daruis makes and sells handmade silk scarves. She buys 13 yards of silk fabric at a rate of \$24.86 per yard. Daruis uses 0.5 yards of silk to make each scarf and uses all the fabric. Daruis sells each scarf for \$39.75. What is the profit Daruis makes after buying the fabric and selling all of the scarves?

What is the volume of the figure, in cubic yards.

answer: _____



Preview

Please log in to download the printable version of this worksheet.

answer: _____

Rewrite the powers of ten exponents as expressions.

$$10^4 = \underline{\hspace{2cm}}$$

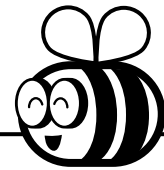
$$10^5 = \underline{\hspace{2cm}}$$

$$10^2 = \underline{\hspace{2cm}}$$

$$10^6 = \underline{\hspace{2cm}}$$

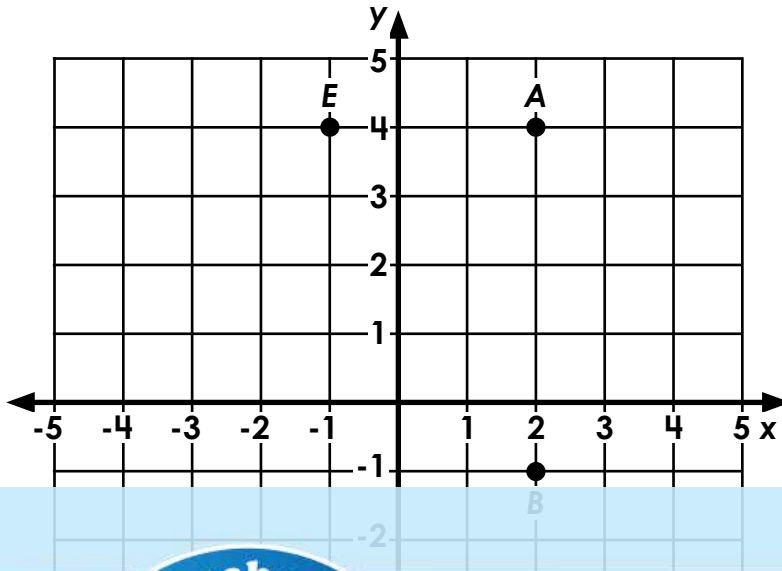
Number of Each Kind of Flower	
Bunches of Carnations	
Bunches of Calla Lilies	

Name: _____



Math Buzz

Some points are shown in the coordinate plane.



Tai is painting his bedroom. He needs $\frac{1}{2}$ gallon to paint two walls. What fraction of a gallon will he need for each of his 2 walls if he uses the same amount of paint on each wall?

answer: _____

A restaurant buys disposable napkins in large boxes. The table shows the relationship between the number of boxes of napkins, b , that they buy and



Preview

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What is the distance, in units, between point D and point C? _____

What is the distance, in units, between point A and point E? _____

What is the coefficient in the expression $4x^2$?

answer: _____

4	\$424
6	\$636
8	\$848

Based on the table, write an equation to represent the total price, t , in terms of the number of boxes of paper napkins bought, b . Then identify the independent and dependent variables.

Independent variable: _____

Dependent variable: _____



Each unit on the coordinate plane represents 2 yards. A student starts at Obstacle A, runs south to Obstacle B, runs west to Obstacle C, and then runs north to Obstacle D. What is the total distance, in yards, the student runs from Obstacle A to Obstacle D?

answer: 28 yards

Aleah bought a hoodie with her debit card without checking her account balance first. Her checking account balance is now -\$27.

What is the size of her debt related to 0? How would Aleah get her checking account out of debt?

The size of her debt is \$27. She must add \$27 to her account to get her account back to \$0.

2 bottles of water cost \$7 at a local fair. Fill in the table to show the costs for 5, 7, and 9 bottles of water. Find the cost for a single bottle in each situation.

Number of Bottles	Cost (\$)	Cost (\$) per Bottle
2	\$7.00	\$3.50
5	\$17.50	\$3.50
7	\$24.50	\$3.50
9	\$31.50	\$3.50

Theo used a 9-yard piece of ribbon for an art project. He cut the ribbon into equal $\frac{1}{4}$ yard pieces. If he used all the ribbon, how many pieces of ribbon did Theo cut?

$$9 \div \frac{1}{4} = 36$$

answer: 36 pieces

5 students want lemonade and 18 students want sweet tea for their lunch order. What is the ratio of the number of students who want lemonade to the number of students who want sweet tea?

5:18 or $\frac{5}{18}$ or 5 to 18

What is the area of the rectangle? (The side lengths are in centimeters.)

$$72 - 10 = 62$$

answer: 62 square centimeters

A local fair has a booth where volunteers are needed. The number of volunteers needed is given by the expression $v + 11$.

$$v + 11$$

Use the model to find the quotient.



Preview

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Find and label $\frac{4}{5}$ on the number line. answer: 10 swans

What is the total volume, in cubic yards, of the figure?

$$12 \times 3 \times 5 = 180$$

$$15 \times 3 \times 3 = 135$$

$$180 + 135 = 315$$

answer: 315 cubic yards

Darius and sells handmade silk scarves. He buys 13 yards of silk fabric at a cost of \$39.75. He uses 0.5 yards of fabric for each scarf and uses all the fabric to make scarves. How much profit does he make after buying the fabric?

$$26 \times 100 = 2,600$$

$$1,033.50 - 2,600 = -1,566.50$$

answer: \$710.32

A florist can order carnations in one dozen and calla lilies in half a dozen. Last month, the florist ordered 12 dozen carnations and 12 half dozens of calla lilies. How many flowers did the florist order in all?

Carnations	12
Calla Lilies	12

answer: 36 flowers

Write the powers of ten exponents in standard form.

$$10^4 = 10 \times 10 \times 10 \times 10$$

$$10^5 = 10 \times 10 \times 10 \times 10 \times 10$$

$$10^2 = 10 \times 10$$

$$10^6 = 10 \times 10 \times 10 \times 10 \times 10 \times 10$$

What is the distance, in units, between point A and point C?

9 units

What is the distance, in units, between point D and point C?

6 units

What is the distance, in units, between point A and point E?

3 units

Tai is painting his bedroom. He needs $\frac{1}{2}$ gallon to paint two walls. What fraction of a gallon will he need for each of his 2 walls if he uses the same amount of paint on each wall?

$$\frac{1}{2} \div 2 = \frac{1}{4}$$

answer: $\frac{1}{4}$ gallon

Based on the table, write an equation to represent the total price, t , in terms of the number of boxes of paper napkins bought, b . Then identify the independent and dependent variables.

$$t = 106b$$

Independent variable: b

Dependent variable: t

What is the coefficient in the expression $4x^2$?

answer: 4