

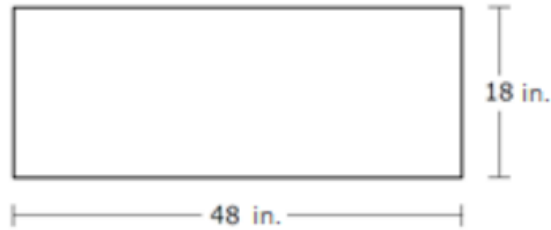
7th Grade FSA Test Prep

Week 1



1 Megan and Jake both live on the same street that the library is on. Megan lives 3.5 blocks north of the library, and Jake lives 4.5 blocks south of the library. How many blocks apart do Megan and Jake live?

A rectangle with its dimensions, in inches (in), is shown.



3

2 A circle has a diameter of 12 cm. What is the area of the circle in square centimeters? Assume $\pi = 3.14$.

Which of the options below correctly represents the ratio between length and width?

- A. 3:8
- B. 8:3
- C. 6:8
- D. 8:6

$(A = \pi r^2)$

4 A recipe calls for $\frac{3}{4}$ cup of sugar for every 3 cups of flour. How much flour should be used for every 1 cup of sugar?

5 What is the sum of the two expressions?

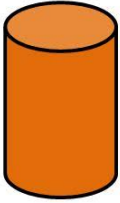
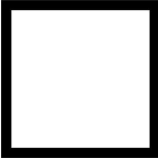
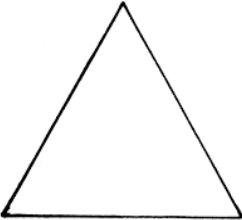
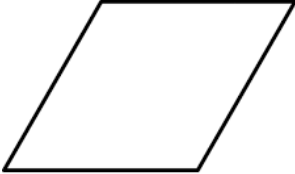
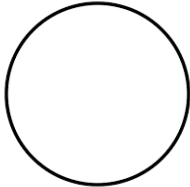
$(\frac{2}{7}x + 5) + (\frac{4}{7}x - 3)$

6 The perimeter of a rectangular garden is 28.4 feet (ft). The width is x , and the length is 8 ft. What is the width, in feet, of the garden?

7 A bucket contains 6 green rubber balls, 4 red rubber balls, and 8 purple rubber balls. Alex removes 3 rubber balls, without replacement, from the bucket.

What is the probability that Alex removes a green ball, red ball, and purple ball in that order?

<p>An expression is shown. $12.3 - (-21.45)$ What is the value of the expression?</p>	<p>Armando bought a meal in a town that has no sales tax. He tips 20%. Select all meals Armando could buy for \$20 or less.</p> <p><input type="checkbox"/> \$15.25</p> <p><input type="checkbox"/> \$17.15</p> <p><input type="checkbox"/> \$16.65</p> <p><input type="checkbox"/> \$16.50</p> <p><input type="checkbox"/> \$17.00</p> <p><input type="checkbox"/> \$16.80</p>			
<p>What is $\frac{5}{8}$ written as a decimal?</p>				
<p>A shipping company selects 75 random packages to check their weight. It finds that 3 packages were weighed incorrectly. How many packages out of 3000 should the company predict have an incorrect weight?</p>	<p>A cube has a surface area of 54 cm^2. What is the volume of the cube?</p>	<p>Nate and 2 friends share a pizza equally. If Nate eats half of his share of the pizza, what fraction of the total pizza did he eat?</p>		
<p>Match the formula with what it measures:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> <p>$\pi 2r$ •</p> <p>$\frac{1}{2}bh$ •</p> <p>πr^2 •</p> <p>Bh •</p> <p>$\frac{1}{3} Bh$ •</p> </td> <td style="width: 50%; vertical-align: top;"> <p>• volume of a cube</p> <p>• area of a circle</p> <p>• circumference of a circle</p> <p>• volume of a pyramid</p> <p>• area of a triangle</p> </td> </tr> </table>			<p>$\pi 2r$ •</p> <p>$\frac{1}{2}bh$ •</p> <p>πr^2 •</p> <p>Bh •</p> <p>$\frac{1}{3} Bh$ •</p>	<p>• volume of a cube</p> <p>• area of a circle</p> <p>• circumference of a circle</p> <p>• volume of a pyramid</p> <p>• area of a triangle</p>
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<p>Find the difference of the two expressions.</p> $\left(\frac{4}{5}x - 2\right) - \left(\frac{1}{5}x + 7\right)$	<p>Daniel and Dianna each cut a cylinder in half. The cross-section that results from Daniel's cut is a circle. The cross-section that results from Dianna's cut is a rectangle. If each cylinder was positioned like the one to the right, which of the following must be true?</p> 	
<p>Gerardo makes \$18 per hour at Starbucks. Tomorrow he is going to receive a raise totalling 20% of his hourly wage. What will he be making per hour starting tomorrow?</p>	<p>A. Daniel cut from top to bottom, and Dianna cut from side to side. B. Daniel cut from side to side, and Dianna cut from top to bottom. C. Daniel and Dianna both cut from top to bottom. D. Daniel and Dianna both cut from side to side.</p>	
<p>Nathan is drawing a triangle. He knows that two of the side lengths are going to be 5 inches and 7 inches. Which of the following can be the third side length?</p> <p>A. 13 inches B. 1 inch C. 8 inches D. 15 inches</p>	<p>Mary drew a picture of a building. She used the scale shown.</p> <p style="text-align: center;">1 inch : 16 feet</p> <p>The building in her picture is 9 inches tall. What is the height, in feet, of the actual building?</p>	<p>A recipe calls for $\frac{5}{8}$ cup of sugar for every 5 teaspoons of vanilla. What is the unit rate in cups per teaspoon?</p>
<p>Circle the quadrilateral below that has exactly two lines of symmetry.</p> <div style="display: flex; justify-content: space-around; align-items: center;">     </div>		

<p>What is the sum of the two expressions?</p> $\left(\frac{4}{5}x + 13\right) - \left(\frac{5}{8}x - 6\right)$	<p>The dimensions of a rectangular pool are 28.4 feet by 18 feet. The depth is 5 feet. Each cubic foot contains approximately 7.5 gallons of water.</p> <p>How many gallons of water will it take to fill the pool 60% full?</p>	
<p>James finds rollerblades on sale at three different stores. Which store is offering the best price after the discount?</p> <ul style="list-style-type: none"> <input type="checkbox"/> Store A: \$110, 20% off <input type="checkbox"/> Store B: \$95, 11% off <input type="checkbox"/> Store C: \$102, 18% off 		
<p>Al is buying a bicycle. The tax on the bicycle (b) is represented by $0.07b$. Write an expression in terms of b to represent the total amount that Al spends on the bicycle, including tax.</p>	<p>Which expression represents that x was tripled and then decreased by 5%?</p> <ul style="list-style-type: none"> A. $3x - 0.5x$ B. $0.05x - 3x$ C. $3x - 0.05x$ D. $3 - (x - 0.05x)$ 	<p>Combine like terms:</p> $(3x + 7) - (-2x + 13) - 3$
<p>A middle school has</p> <ul style="list-style-type: none"> - 180 students in grade 6; - 215 students in grade 7; and - 200 students in grade 8. <p>The media specialist wants to know which books are the most popular among the students in her school. Since she cannot ask all the students, she will survey a group of them. Which sample can best help the media specialist draw conclusions about the preferences of all the students in the school?</p> <ul style="list-style-type: none"> A. 27 sixth graders, 27 seventh graders, 30 eighth graders B. 32 sixth graders, 36 seventh graders, 40 eighth graders C. 36 sixth graders, 43 seventh graders, 40 eighth graders D. 32 sixth graders, 36 seventh graders, 30 eighth graders 		

The local weather report stated there is a $\frac{1}{3}$ chance of rain on Friday. How likely is it to rain?
 A. certain
 B. likely
 C. unlikely
 D. impossible

A prism is sliced vertically as shown.



Erin walked 13 miles in 4 hours. What is the unit rate of miles to hour?

What shape is the cross-section?

- A. Pentagon
- B. Triangle
- C. Rhombus
- D. Rectangle

Jasmine is 12. In six years, her age will be $\frac{3}{2}$ the age of her sister Viviana. How old will Viviana be in three years?

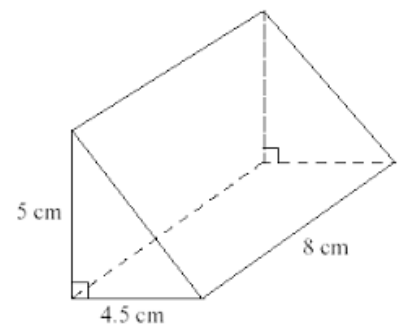
A bag contains 6 red marbles and 18 blue marbles. What is the probability of randomly selecting a blue marble from the bag?

An expression is shown.
 $27.75 + (-9.5)$
 What is the value of the expression?

Select all situations that describe a probability of $\frac{1}{3}$ of drawing a red marble out of the bag.

What is the volume of the figure below?

- 1 red, 3 yellow, 3 green, 3 blue, 3 white
- 7 red, 3 yellow, 5 green, 4 blue, 2 white
- 3 red, 2 yellow, 1 green, 1 blue, 3 white
- 6 red, 2 yellow, 2 green, 1 blue, 1 white
- 5 red, 3 yellow, 1 green, 5 blue, 1 white



An equation is shown, where $z < 0$.

$$x \cdot y = z$$

If $y < 0$, which of the following must be true?

- a. $x = 0$
- b. $x < 0$
- c. $x > 0$

The change in the price of a loaf of raisin bread is shown in the table.

Year	Change
2015	-\$0.21
2016	+\$0.36
2017	-\$0.08

What is the formula for circumference of a circle?

In 2014 the price of raisin bread was \$1.59. What was the price of the raisin bread at the end of 2017?

Select the true statement.

- A. $5 \cdot (-5) = 25$
- B. $(-5) \cdot (-5) = 25$
- C. $5 \cdot (5) = -25$
- D. $(-5) \cdot (-5) = -25$

An expression is shown.

$$-4\frac{1}{2} + 6\frac{3}{4}$$

What is the value of the expression?

Find the difference of the two expressions.

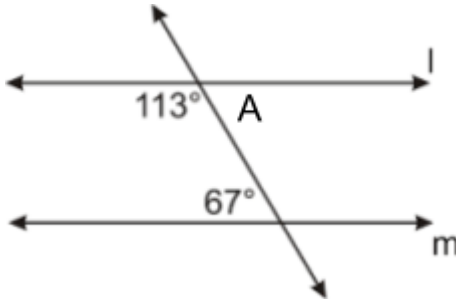
$$\left(\frac{2}{3}x - 8\right) - \left(\frac{1}{4}x - 4\right)$$

Antonio has a bucket filled with red, purple, pink, and blue markers. He removes 5 markers from the bucket randomly.

Based on the information provided, which of the following are **not** possible outcomes.

- All markers removed are the same color.
- An equal number of red and purple markers were removed.
- No pink or blue markers were removed.
- All five markers removed are different colors.
- Three of the markers removed were purple, one was blue, and one was green.

How many degrees is $\angle A$ if lines l and m are parallel?

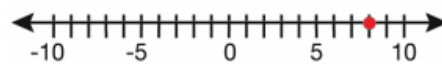


A set of gel pens costs \$0.90 to make. At the school fundraiser, it sells for \$2.80. Forty percent of the profit (the difference between the purchase price and the amount it costs to make) from each set of gel pens goes to the school. If 400 sets are sold, what is the amount of money that will go to the school?

Steven rolls a 6-sided number cube 3 times. What is the probability of rolling a multiple of 3 on all three rolls?

Pauline uses $\frac{2}{5}$ of a cup of sugar in each batch of cookies. Yesterday, Pauline used 1 cup of sugar. How many batches of cookies did Pauline make yesterday?

A number line is shown.



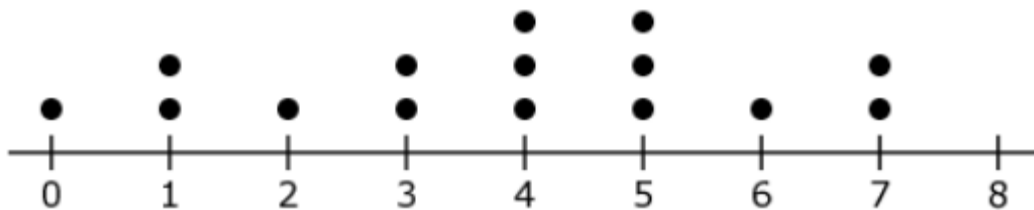
Draw Point B on the number line to represent -8. How far is Point A from Point B?

An expression is shown.

$$30.25 - (-5.7) - 2.08$$

What is the value of the expression?

For the data set shown, find the mean, median, mode, range, and interquartile range.



mean (to the nearest tenth)=

median =

mode =

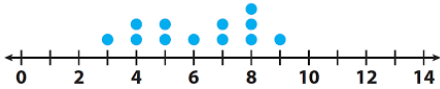
range =

interquartile range =

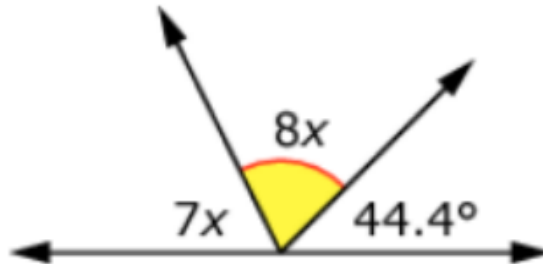
An expression is shown.
 $4 + 7 + (-8) + 1$
 What is the value of the expression?

The weather report stated there is a $\frac{3}{4}$ chance of rain on Friday.
 What is this as a percentage?

What is the range of the data set represented below?



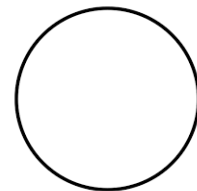
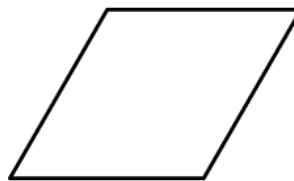
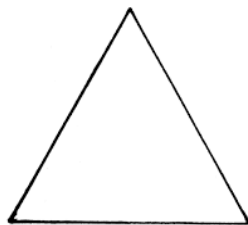
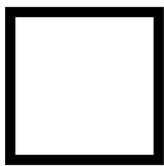
What is the measure, in degrees, of the highlighted middle angle?



Solve:
 $(-12) + 28 =$
 $42 - (-26) =$
 $-27 + (-13) =$
 $-31 - (-22) =$

Stacy has a piece of paper that measures 11 inches by 8.5 inches. She needs to trim 10% off of both the length and width. What will the area of the paper be when she is done trimming?

Circle the quadrilateral below that has exactly four lines of symmetry.



<p>Nichole ordered lunch at a restaurant. Her meal totalled \$14.30. If sales tax is 7%, and she leaves a tip of 20% after sales tax is added on, what is the total she paid for lunch?</p>	<p>A bucket holds 480 ounces (oz) of water when full. Unfortunately, the bucket has a small hole in it, and is losing 4.8 oz of water per minute. In how many minutes will the bucket be 80% full?</p>
<p>It takes Erin 16 hours to drive 1200 miles from Gainesville to New York. What is her average speed in miles per hour?</p>	

<p>Complete the missing part of the ratio:</p> <p style="text-align: center; margin-top: 20px;">$4:5 = 12: \underline{\hspace{2cm}}$</p>	<p>In Hooper's Pet Store, $\frac{1}{4}$ of all the pets they sell are dogs. Of those, $\frac{2}{5}$ are german shepherds. What fraction of all the pets sold are german shepherds?</p>	<p>Aileen is buying a new purse that costs \$78.75. She has a coupon to receive 35% off. What is the amount she will pay after the discount if there is no sales tax?</p>
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A spinner is divided into equal parts 1 – 5. George spun the spinner 300 times. A table of outcomes is shown.

Part	Times Spun
1	42
2	66
3	63
4	72
5	57

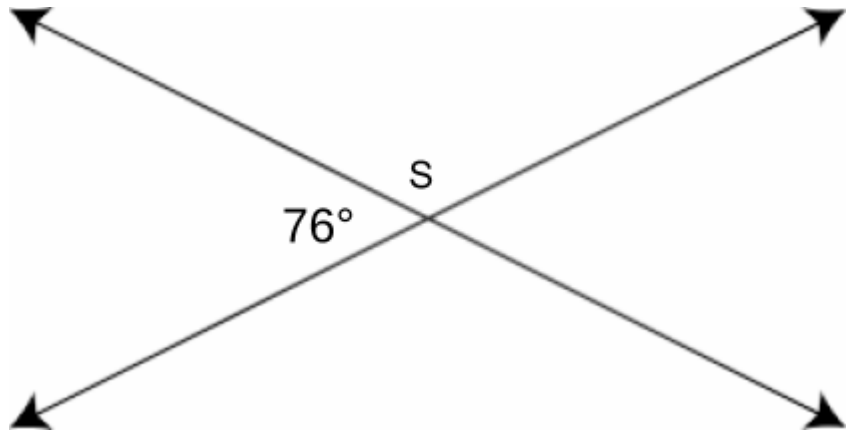
Based on the table, what is an estimated probability of the spinner landing on an even number?

A recipe used $\frac{4}{5}$ cup of sugar for every 2 cups of flour. How much sugar was used per cup of flour?

At 8:00 A.M., the temperature was 12 degrees Celsius ($^{\circ}\text{C}$). Two hours later, the temperature was -7°C . By how many degrees Celsius did the temperature change?

What is the sum of the two expressions?
 $(\frac{5}{6}x - 3) + (\frac{2}{3}x + 14)$

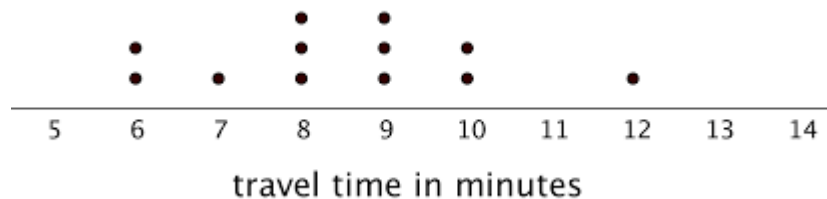
In the following diagram, what is the measure of $\angle S$? **104°**



An expression is shown.
 $5\frac{1}{6} - (-3\frac{1}{8})$
 What is the value of the expression?

What is $\frac{2}{3}$ written as a decimal?

Use the dot plot below to answer the following questions.

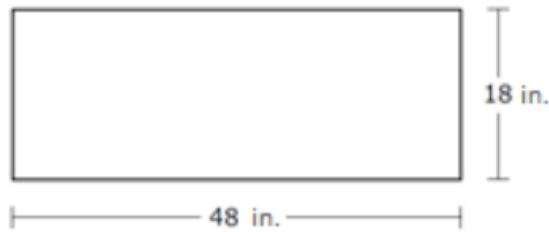


1. What is the mean travel time? _____ minutes
2. What is the median travel time? _____ minutes
3. What is the interquartile range? _____ minutes

Megan and Jake both live on the same street that the library is on. Megan lives 3.5 blocks north of the library, and Jake lives 4.5 blocks south of the library. How many blocks apart do Megan and Jake live?

8 blocks

A rectangle with its dimensions, in inches (in), is shown.



A circle has a diameter of 12 cm. What is the area of the circle in square centimeters? Assume $\pi = 3.14$.

113.04 cm²

Which of the options below correctly represents the ratio between length and width?

- A. 3:8
- B. 8:3
- C. 6:8
- D. 8:6

A recipe calls for $\frac{3}{4}$ cup of sugar for every 3 cups of flour. How much flour should be used for every 1 cup of sugar?

4 cups of flour

What is the sum of the two expressions?

$$\left(\frac{2}{7}x + 5\right) + \left(\frac{4}{7}x - 3\right)$$

$$\left(\frac{6}{7}x + 2\right)$$

The perimeter of a rectangular garden is 28.4 feet (ft). The width is x , and the length is 8 ft. What is the width, in feet, of the garden?

6.2 feet

A bucket contains 6 green rubber balls, 4 red rubber balls, and 8 purple rubber balls. Alex removes 3 rubber balls, without replacement, from the bucket.

What is the probability that Alex removes a green ball, red ball, and purple ball in that order?

$$\frac{1}{3} \times \frac{4}{17} \times \frac{1}{2} = \frac{4}{102} \text{ or } \frac{2}{51}$$

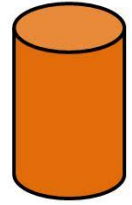
<p>An expression is shown. $12.3 - (-21.45)$ What is the value of the expression?</p> <p>33.75</p>	<p>Armando bought a meal in a town that has no sales tax. He tips 20%. Select all meals Armando could buy for \$20 or less.</p> <p><input type="checkbox"/> \$15.25</p> <p><input type="checkbox"/> \$17.15</p> <p><input checked="" type="checkbox"/> \$16.65</p> <p><input checked="" type="checkbox"/> \$16.50</p> <p><input type="checkbox"/> \$17.00</p> <p><input type="checkbox"/> \$16.80</p>			
<p>What is $\frac{5}{8}$ written as a decimal?</p> <p>0.625</p>				
<p>A shipping company selects 75 random packages to check their weight. It finds that 3 packages were weighed incorrectly. How many packages out of 3000 should the company predict have an incorrect weight? 120</p>	<p>A cube has a surface area of 54 cm^2. What is the volume of the cube?</p> <p>27 cm^3</p>	<p>Nate and 2 friends share a pizza equally. If Nate eats half of his share of the pizza, what fraction of the total pizza did he eat?</p> <p>$\frac{1}{6}$ pizza</p>		
<p>Match the formula with what it measures:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> <p>$\pi 2r$</p> <p>$\frac{1}{2}bh$</p> <p>πr^2</p> <p>Bh</p> <p>$\frac{1}{3} Bh$</p> </td> <td style="width: 50%; vertical-align: top;"> <p>• volume of a cube</p> <p>• area of a circle</p> <p>• circumference of a circle</p> <p>• volume of a pyramid</p> <p>• area of a triangle</p> </td> </tr> </table>			<p>$\pi 2r$</p> <p>$\frac{1}{2}bh$</p> <p>πr^2</p> <p>Bh</p> <p>$\frac{1}{3} Bh$</p>	<p>• volume of a cube</p> <p>• area of a circle</p> <p>• circumference of a circle</p> <p>• volume of a pyramid</p> <p>• area of a triangle</p>
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Find the difference of the two expressions.

$$\left(\frac{4}{5}x - 2\right) - \left(\frac{1}{5}x + 7\right)$$

$$\left(\frac{3}{5}x - 9\right)$$

Daniel and Dianna each cut a cylinder in half. The cross-section that results from Daniel's cut is a circle. The cross-section that results from Dianna's cut is a rectangle. If each cylinder was positioned like the one to the right, which of the following must be true?



Gerardo makes \$18 per hour at Starbucks. Tomorrow he is going to receive a raise totalling 20% of his hourly wage. What will he be making per hour starting tomorrow?

\$21.60/hr

- A. Daniel cut from top to bottom, and Dianna cut from side to side.
- B. **Daniel cut from side to side, and Dianna cut from top to bottom.**
- C. Daniel and Dianna both cut from top to bottom.
- D. Daniel and Dianna both cut from side to side.

Nathan is drawing a triangle. He knows that two of the side lengths are going to be 5 inches and 7 inches. Which of the following can be the third side length?

- A. 13 inches
- B. 1 inch
- C. **8 inches**
- D. 15 inches

Mary drew a picture of a building. She used the scale shown.

1 inch : 16 feet

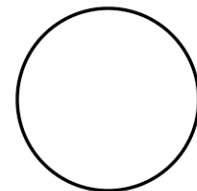
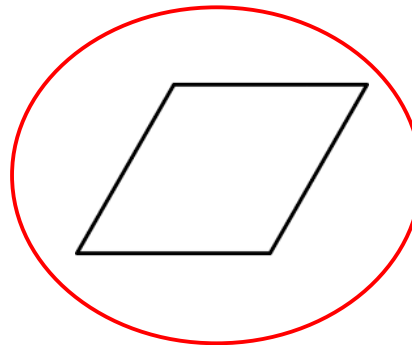
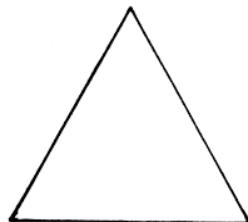
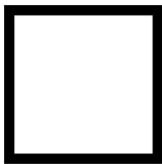
The building in her picture is 9 inches tall. What is the height, in feet, of the actual building?

144 feet

A recipe calls for $\frac{5}{8}$ cup of sugar for every 5 teaspoons of vanilla. What is the unit rate in cups per teaspoon?

$\frac{1}{8}$ cup of sugar per tsp of vanilla

Circle the quadrilateral below that has exactly two lines of symmetry.



<p>What is the sum of the two expressions?</p> $\left(\frac{4}{5}x + 13\right) - \left(\frac{5}{8}x - 6\right)$ $\left(\frac{7}{40}x + 19\right)$	<p>The dimensions of a rectangular pool are 28.4 feet by 18 feet. The depth is 5 feet. Each cubic foot contains approximately 7.5 gallons of water.</p> <p>How many gallons of water will it take to fill the pool 60% full?</p> <p style="text-align: center;">11,502</p>	
<p>James finds rollerblades on sale at three different stores. Which store is offering the best price after the discount?</p> <p><input type="checkbox"/> Store A: \$110, 20% off</p> <p><input type="checkbox"/> Store B: \$95, 11% off</p> <p><input checked="" type="checkbox"/> Store C: \$102, 18% off</p>		
<p>Al is buying a bicycle. The tax on the bicycle (b) is represented by $0.07b$. Write an expression in terms of b to represent the total amount that Al spends on the bicycle, including tax.</p> <p style="text-align: center;">$b + 0.07b$</p>	<p>Which expression represents that x was tripled and then decreased by 5%?</p> <p>A. $3x - 0.5x$</p> <p>B. $0.05x - 3x$</p> <p>C. $3x - 0.05x$</p> <p>D. $3 - (x - 0.05x)$</p>	<p>Combine like terms:</p> $(3x + 7) - (-2x + 13) - 3$ <p style="text-align: center;">$5x - 9$</p>
<p>A middle school has</p> <ul style="list-style-type: none"> - 180 students in grade 6; - 215 students in grade 7; and - 200 students in grade 8. <p>The media specialist wants to know which books are the most popular among the students in her school. Since she cannot ask all the students, she will survey a group of them. Which sample can best help the media specialist draw conclusions about the preferences of all the students in the school?</p> <p>A. 27 sixth graders, 27 seventh graders, 30 eighth graders</p> <p>B. 32 sixth graders, 36 seventh graders, 40 eighth graders</p> <p>C. 36 sixth graders, 43 seventh graders, 40 eighth graders</p> <p>D. 32 sixth graders, 36 seventh graders, 30 eighth graders</p>		

The local weather report stated there is a $\frac{1}{3}$ chance of rain on Friday. How likely is it to rain?
 A. certain
 B. likely
C. unlikely
 D. impossible

A prism is sliced vertically as shown.



Erin walked 13 miles in 4 hours. What is the unit rate of miles to hour?
3.25 miles per hour

What shape is the cross-section?
 A. Pentagon
 B. Triangle
 C. Rhombus
D. Rectangle

Jasmine is 12. In six years, her age will be $\frac{3}{2}$ the age of her sister Viviana. How old will Viviana be in three years?
9 years old

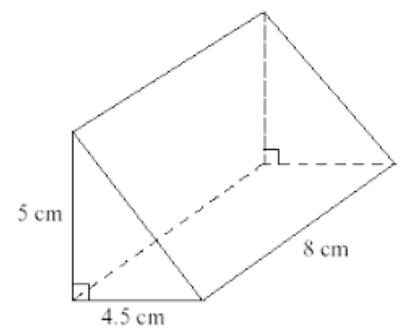
A bag contains 6 red marbles and 18 blue marbles. What is the probability of randomly selecting a blue marble from the bag? **$\frac{3}{4}$ or 75%**

An expression is shown.
 $27.75 + (-9.5)$
 What is the value of the expression?
18.25

Select all situations that describe a probability of $\frac{1}{3}$ of drawing a red marble out of the bag.

- 1 red, 3 yellow, 3 green, 3 blue, 3 white
- 7 red, 3 yellow, 5 green, 4 blue, 2 white**
- 3 red, 2 yellow, 1 green, 1 blue, 3 white
- 6 red, 2 yellow, 2 green, 1 blue, 1 white
- 5 red, 3 yellow, 1 green, 5 blue, 1 white**

What is the volume of the figure below?



90 cm^3

An equation is shown, where $z < 0$.

$$x \cdot y = z$$

If $y < 0$, which of the following must be true?

- a. $x = 0$
- b. $x < 0$
- c. $x > 0$ **x**

The change in the price of a loaf of raisin bread is shown in the table.

Year	Change
2015	-\$0.21
2016	+\$0.36
2017	-\$0.08

What is the formula for circumference of a circle?

$$C = 2\pi r$$

In 2014 the price of raisin bread was \$1.59. What was the price of the raisin bread at the end of 2017?

\$1.66

Select the true statement.

- A. $5 \cdot (-5) = 25$
- B. **$(-5) \cdot (-5) = 25$**
- C. $5 \cdot (5) = -25$
- D. $(-5) \cdot (-5) = -25$

An expression is shown.

$$-4\frac{1}{2} + 6\frac{3}{4}$$

What is the value of the expression?

$2\frac{1}{4}$

Find the difference of the two expressions.

$$\left(\frac{2}{3}x - 8\right) - \left(\frac{1}{4}x - 4\right)$$

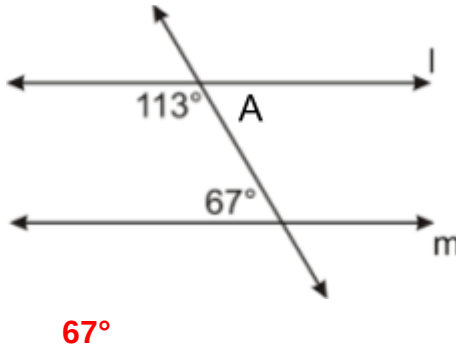
$\left(\frac{5}{12}x - 4\right)$

Antonio has a bucket filled with red, purple, pink, and blue markers. He removes 5 markers from the bucket randomly.

Based on the information provided, which of the following are **not** possible outcomes.

- All markers removed are the same color.
- An equal number of red and purple markers were removed.**
- No pink or blue markers were removed.
- All five markers removed are different colors.**
- Three of the markers removed were purple, one was blue, and one was green.**

How many degrees is $\angle A$ if lines l and m are parallel?



67°

A set of gel pens costs \$0.90 to make. At the school fundraiser, it sells for \$2.80. Forty percent of the profit (the difference between the purchase price and the amount it costs to make) from each set of gel pens goes to the school. If 400 sets are sold, what is the amount of money that will go to the school?

\$304.00

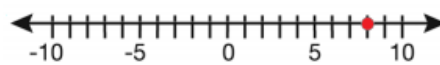
Steven rolls a 6-sided number cube 3 times. What is the probability of rolling a multiple of 3 on all three rolls?

1/27

Pauline uses $\frac{2}{5}$ of a cup of sugar in each batch of cookies. Yesterday, Pauline used 1 cup of sugar. How many batches of cookies did Pauline make yesterday?

2½

A number line is shown.



Draw Point B on the number line to represent -8. How far is Point A from Point B? 16 units

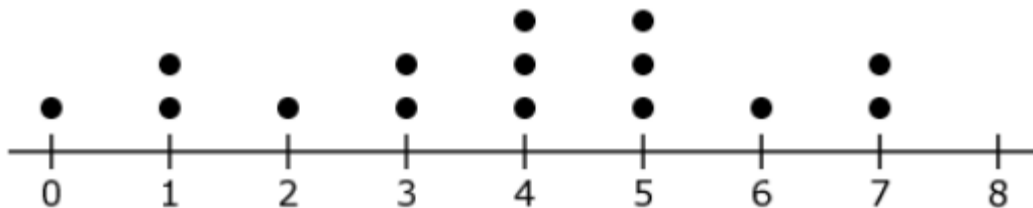
An expression is shown.

$$30.25 - (-5.7) - 2.08$$

What is the value of the expression?

33.87

For the data set shown, find the mean, median, mode, range, and interquartile range.



mean (to the nearest tenth)= 4.1

median = 4

mode = 4, 5

range = 6

interquartile range = 2

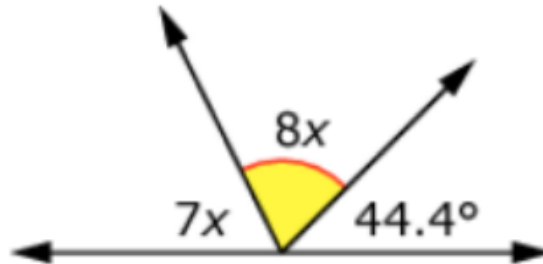
An expression is shown.
 $4 + 7 + (-8) + 1$
 What is the value of the expression?

4

The weather report stated there is a $\frac{3}{4}$ chance of rain on Friday.
 What is this as a percentage?

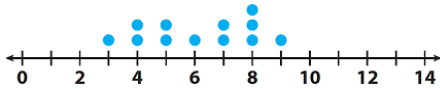
75%

What is the measure, in degrees, of the highlighted middle angle?



72.32 degrees

What is the range of the data set represented below?



Range = 6

Solve:

$$(-12) + 28 = 16$$

$$42 - (-26) = 68$$

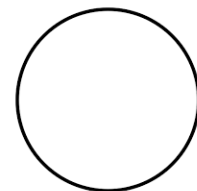
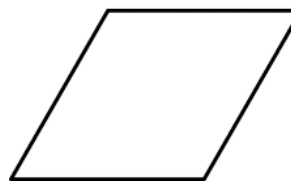
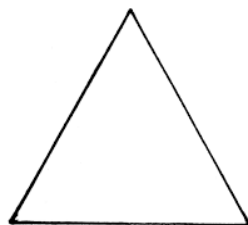
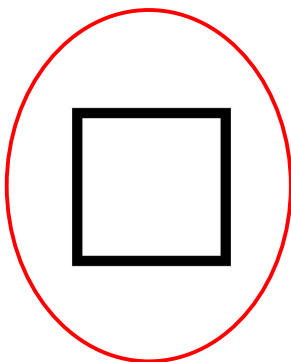
$$-27 + (-13) = -40$$

$$-31 - (-22) = -9$$

Stacy has a piece of paper that measures 11 inches by 8.5 inches. She needs to trim 10% off of both the length and width. What will the area of the paper be when she is done trimming?

75.735 inches

Circle the quadrilateral below that has exactly four lines of symmetry.



Nichole ordered lunch at a restaurant. Her meal totalled \$14.30. If sales tax is 7%, and she leaves a tip of 20% after sales tax is added on, what is the total she paid for lunch?

\$18.36

It takes Erin 16 hours to drive 1200 miles from Gainesville to New York. What is her average speed in miles per hour?

75 miles per hour

A bucket holds 480 ounces (oz) of water when full. Unfortunately, the bucket has a small hole in it, and is losing 4.8 oz of water per minute. In how many minutes will the bucket be 80% full?

20 minutes

Complete the missing part of the ratio:

$$4:5 = 12: \underline{\hspace{2cm}}$$

15

In Hooper's Pet Store, $\frac{1}{4}$ of all the pets they sell are dogs. Of those, $\frac{2}{5}$ are german shepherds. What fraction of all the pets sold are german shepherds?

$\frac{2}{20}$ or $\frac{1}{10}$

Aileen is buying a new purse that costs \$78.75. She has a coupon to receive 35% off. What is the amount she will pay after the discount if there is no sales tax?

\$51.19

A spinner is divided into equal parts 1 – 5. George spun the spinner 300 times. A table of outcomes is shown.

Part	Times Spun
1	42
2	66
3	63
4	72
5	57

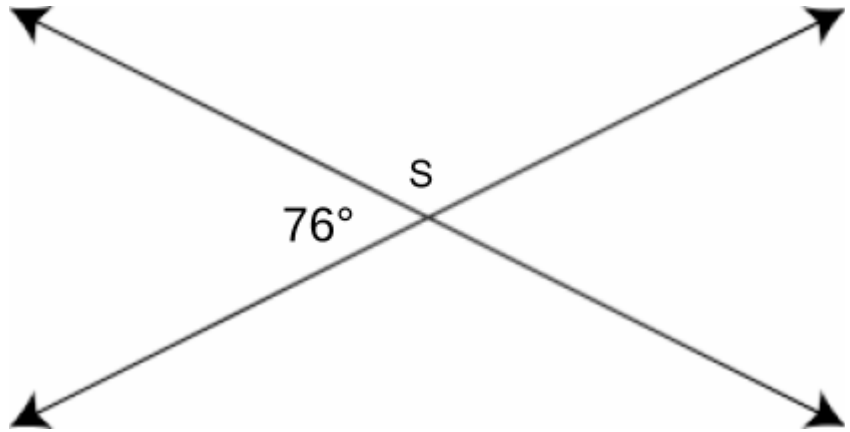
Based on the table, what is an estimated probability of the spinner landing on an even number? $\frac{2}{5}$ or 40%

A recipe used $\frac{4}{5}$ cup of sugar for every 2 cups of flour. How much sugar was used per cup of flour? $\frac{2}{5}$ cup

At 8:00 A.M., the temperature was 12 degrees Celsius ($^{\circ}\text{C}$). Two hours later, the temperature was -7°C . By how many degrees Celsius did the temperature change?

19°C

In the following diagram, what is the measure of $\angle S$? 104°



What is the sum of the two expressions?

$$\left(\frac{5}{6}x - 3\right) + \left(\frac{2}{3}x + 14\right)$$

$$\left(1\frac{1}{2}x + 11\right)$$

An expression is shown.

$$5\frac{1}{6} - \left(-3\frac{1}{8}\right)$$

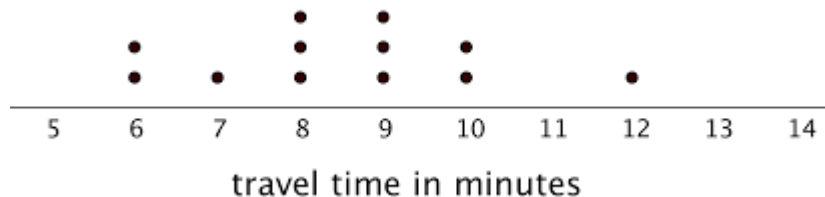
What is the value of the expression?

$$8\frac{7}{24}$$

What is $\frac{2}{3}$ written as a decimal?

0.67

Use the dot plot below to answer the following questions.



1. What is the mean travel time? _____ minutes 8.5 minutes
2. What is the median travel time? _____ minutes 8.5 minutes
3. What is the interquartile range? _____ minutes 2 minutes