

**Pre-Module
Assessment**

Name _____

Date _____

1. Complete each number sentence to make it true. Write one number from the given answer choices in each box.

$$2 \div 6 = \frac{\boxed{}}{\boxed{}}$$

$$\frac{1}{7} = \boxed{} \div \boxed{}$$

Answer Choices

1	2	6	7
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2. Divide.

$$1,938 \div 24 = \underline{\hspace{2cm}}$$

3. Evaluate the expression.

$$\frac{1}{2} + 2(3.5) - \frac{2}{5}$$

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1. Evaluate the expression.

$$-(-6)$$

2. Evaluate the expression $5^2 + 9^2$.

3. Evaluate 85×10^4 .

4. Divide.

$$1,938 \div 24 = \underline{\hspace{2cm}}$$

5. Order the numbers from least to greatest. Write one number from the given answer choices in each box.

Least					Greatest

Answer Choices

$\frac{2}{3}$	$-\frac{4}{7}$	5.8	-1.7	-2	$\frac{13}{5}$
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6. Complete each number sentence to make it true.

$$5.4 - 1.1 = \underline{\hspace{2cm}} \qquad 9.6 - 4.7 = \underline{\hspace{2cm}} \qquad 7.86 - 3.48 = \underline{\hspace{2cm}}$$

7. What is the value of $3.4(6.8)$?

- A. 10.2
- B. 20.82
- C. 23.12
- D. 231.2

8. Divide.

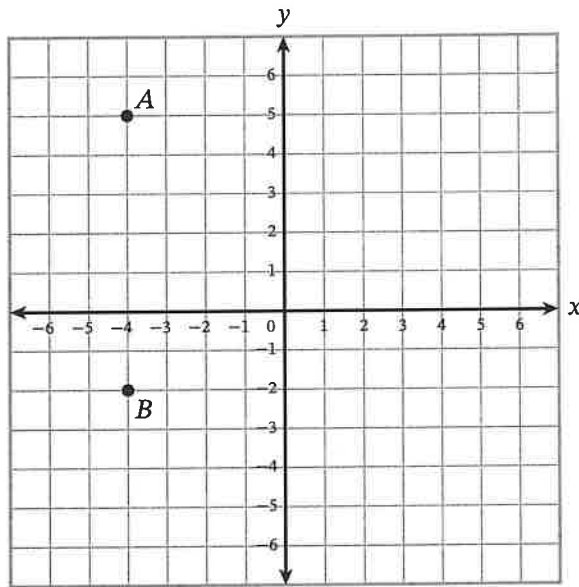
$$11.48 \div 2.8$$

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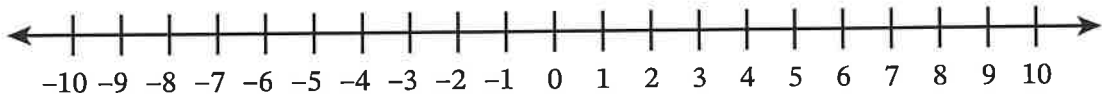
Date _____

1. What is the distance between point *A* and point *B*?

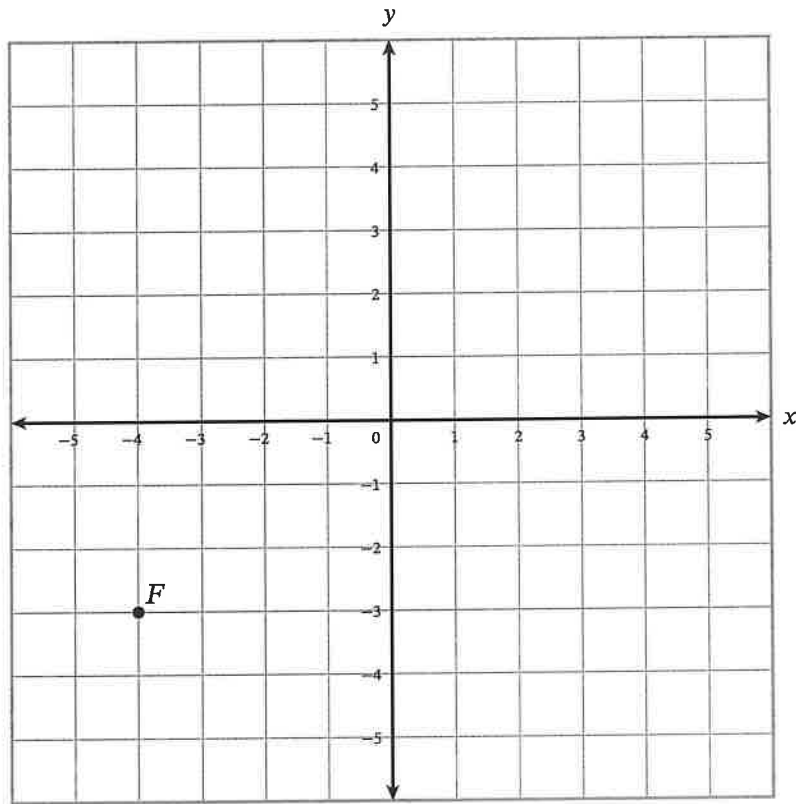


_____ units

4. Graph the solutions to $x < 7$ on the number line.



5. Consider the graph.



Part A

What is the ordered pair of point F ?

(_____ , _____)

Part B

Point H is the reflection of point F across the y -axis. What is the ordered pair of point H ?

7. Determine which expression represents each description. Write one expression from the given answer choices in each box.

Description	Expression
The product of 5 and the sum of a number and 2	
The quotient of 5 and the sum of a number and 2	
Two times the difference of a number and 5	
The sum of a number and 5, doubled	

Answer Choices

$2(x + 5)$	$2(x - 5)$	$5(x + 2)$	$5 \div (x + 2)$
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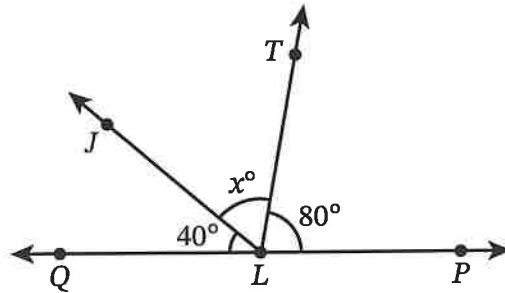
8. Solve.

$$x + 4 = 15$$

9. A shop sells tacos for \$3.75 each. On Monday, the shop makes \$240 from selling tacos. How many tacos does the shop sell on Monday?

_____ tacos

10. The diagram shows \overleftrightarrow{QP} , \overrightarrow{LJ} , and \overrightarrow{LT} intersecting at point L . The measure of $\angle QLP$ is 180° .



Solve for x .

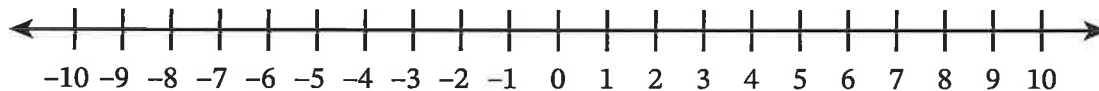
11. Which of these expressions are equivalent to $3(x + 2y) + 4x + 6y$? Choose **all** that apply.
- A. $7x + 8y$
 - B. $7x + 12y$
 - C. $3x + 2y + 4x + 6y$
 - D. $3x + 6y + 4x + 6y$
 - E. $3(x + 2y) + 2(2x + 3y)$

12. Choose **all** the values that make the inequality true.

$$4x + 1 > 9$$

- A. 0
- B. 2
- C. 3
- D. $\frac{5}{3}$
- E. 8

13. Graph the solutions to $x < 7$ on the number line.



9. Complete the equation. Write one number from the given answer choices in the box.

$$\frac{2}{3}x = \frac{2}{15}$$

$$x = \frac{\boxed{}}{\boxed{}}$$

Answer Choices

$\frac{1}{5}$	5	$\frac{15}{2}$
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10. Divide.

$$2\frac{3}{5} \div 1\frac{1}{4}$$

11. Jada has 6 multicolored sports bands. She says that 24% of her sports bands are multicolored. What is the total number of sports bands Jada has?

_____ sports bands

3. Solve the equation for x .

$$\frac{2}{5} = \frac{8}{x}$$

4. Evaluate each expression.

$$10 - 7$$

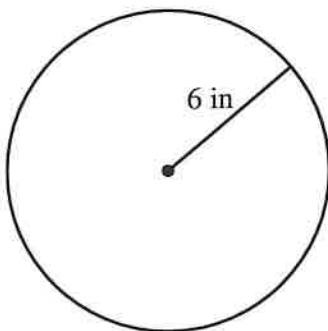
$$10 - (-7)$$

$$7 - 10$$

$$7 - (-10)$$

5. What is the area of the circle?

$$a = \pi r^2$$



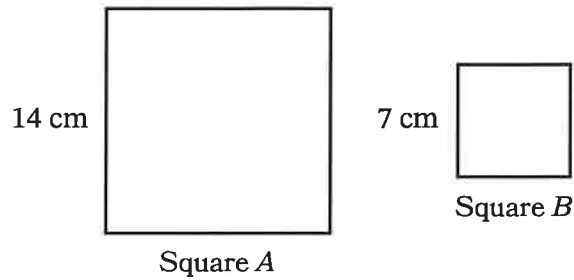
- A. 6π sq in
- B. 12π sq in
- C. 36π sq in
- D. 113π sq in

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1. Consider the figure.



Which is a ratio of the side length of square *A* to the side length of square *B*? Choose **all** that apply.

- A. 1:2
 - B. 2:1
 - C. 7:14
 - D. 14:7
 - E. 14:28
 - F. 28:14
2. For every 15 black beads on a necklace, there are 5 gold beads. What is the unit rate associated with the ratio of the number of black beads to the number of gold beads?
- The unit rate is _____.

3. A falcon, an eagle, and a dove fly at constant rates.
- The falcon flies 25 miles in 30 minutes.
 - The eagle flies 18 miles in 35 minutes.
 - The dove flies 10 miles in 15 minutes.

Circle an answer choice to complete the sentence.

The _____ flies at the slowest rate.

falcon

eagle

dove

4. The table shows the ratio relationship between the number of cups of sugar and the number of cups of milk for a recipe. Complete the table.

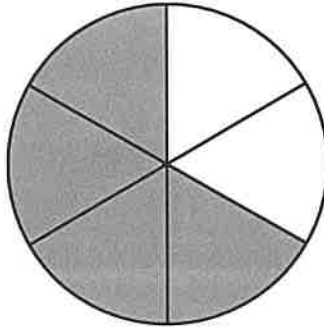
Number of Cups of Sugar, x	Number of Cups of Milk, y
1	
2	12
	24
6	

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1. The circle is divided into equal-size parts.



What fraction of the circle is shaded?

- A. $\frac{1}{6}$
- B. $\frac{2}{4}$
- C. $\frac{2}{6}$
- D. $\frac{4}{6}$
2. Ava has fiction and nonfiction books. The ratio of the number of fiction books to the number of nonfiction books is 3 : 5. Which statements must be true? Choose **all** that apply.
- A. Of Ava's books, $\frac{3}{5}$ are fiction.
- B. Of Ava's books, 3 out of every 8 are fiction.
- C. Ava has 3 fiction books and 5 nonfiction books.
- D. Ava has $\frac{3}{5}$ as many fiction books as nonfiction books.
- E. Ava has 2 more nonfiction books than fiction books.

6. Consider the relationship between time t in hours and distance d in miles represented in the table.

Time, t (hours)	Distance, d (miles)
4	48
6	72
8	96

Which equation represents the relationship between t and d ?

- A. $t = \frac{12}{d}$
B. $t = 12d$
C. $d = 12t$
D. $d = \frac{12}{t}$
7. Mr. Banks stops at a gas station that charges \$3.00 per gallon of gas. Mr. Banks spends \$36.00 on gas.

Part A

Write an equation that could be used to find the number of gallons of gas g that Mr. Banks buys for \$36.00.

Part B

Solve your equation from part A to find the number of gallons of gas Mr. Banks buys.

Mr. Banks buys _____ gallons of gas.