Module Assessment

1. A soup recipe calls for 3 cups of potatoes for every 2 cups of milk. How many cups of potatoes should be used for every 1 cup of milk?

   A. $\frac{2}{3}$

   B. $\frac{3}{2}$

   C. 2

   D. 3

2. The table shows the ratio relationship between the number of friendship bracelets made and the number of green beads used. Complete the table.

Number of Friendship Bracelets	Number of Green Beads
1	
7	49
25	
	224

3. Scott has 4 red shirts, 5 blue shirts, 2 yellow shirts, and 3 orange shirts.

   Part A

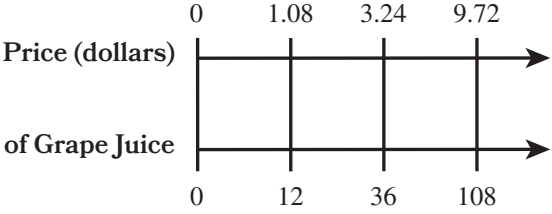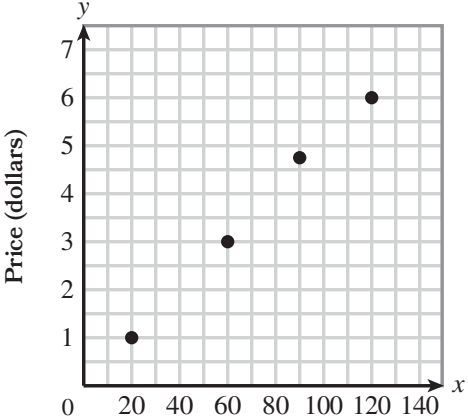   Fill in the blank to complete the statement.

   The ratio of the number of red shirts to the number of orange shirts is _____.

   Part B

   What could the ratio 5 : 14 represent?

4. Consider the representations that show the relationship between the price of juice in dollars and the number of ounces of juice for four different juices.

Type of Juice	Representation
Apple	The price of 16 ounces of apple juice is $1.12.

Orange	

Number of Ounces of Orange Juice	Price (dollars)
8	1.04
32	4.16
64	8.32

Grape

Price (dollars): 0, 1.08, 3.24, 9.72
Number of Ounces of Grape Juice: 0, 12, 36, 108

Cranberry

Number of Ounces of Cranberry Juice

Which juice has the greatest price per ounce?

A. Apple juice

B. Orange juice

C. Grape juice

D. Cranberry juice

5. A farm has 6 goats and 30 cows. The farm gets more goats. Now, the ratio of the number of goats to the number of cows is 3 : 5.

Part A

Circle an answer choice in each box to complete each statement.

The original ratio of the number of goats to the number of cows is ___**(A)**___.

A

6 : 36
36 : 6
6 : 30
30 : 6

After the farm gets more goats, the farm has a total of ___**(B)**___ goats and cows.

B

54
48
42
36

Part B

Explain how you found the new total number of goats and cows.

6. Sasha mows 8 lawns in 4 days.

Part A

When the rate is expressed in lawns per day, what is the unit rate?

A. 8

B. 4

C. 2

D. 1

Part B

What does the unit rate identified in part A mean in this situation?

7. Leo tutors student A for 5 hours and earns $130.00. Leo tutors student B at a rate of $5.00 more per hour than his rate for student A. If Leo earns $248.00 for tutoring student B, how many hours does he tutor student B?

   Leo tutors student B for _____ hours.

8. At a middle school, 40% of the students participate in after-school activities.

   Part A

   Which representations of 40% are correct? Choose **all that** apply.

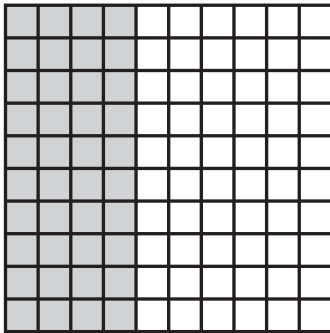   A.   40

   B. $\frac{40}{100}$
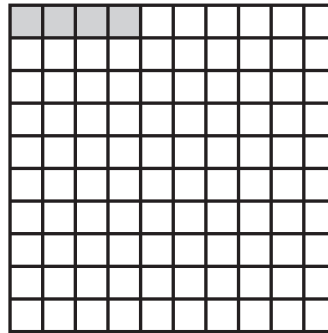
   C.   0.04

   D.   0.4

   E.

   F.

   G. $\frac{4}{5}$

   H.

   Part B

   If 250 students attend the middle school, how many students participate in after-school activities?

   _____ students participate in after-school activities.

9. Julie has songs and photos on her phone. She has 25 songs. This number represents 20% of the total number of songs and photos on Julie's phone. How many photos does Julie have on her phone?

   A. 5

   B. 50

   C. 100

   D. 125

10. A zebra runs 15 miles in 30 minutes. A horse runs 20 miles in 35 minutes. The zebra and the horse run at constant rates.

   Part A

   Circle an answer choice to complete the statement.

   The _____ runs at a slower rate.

horse
zebra

   Part B

   At what rate in feet per second does the zebra run?

   The zebra runs at a rate of _____ feet per second.