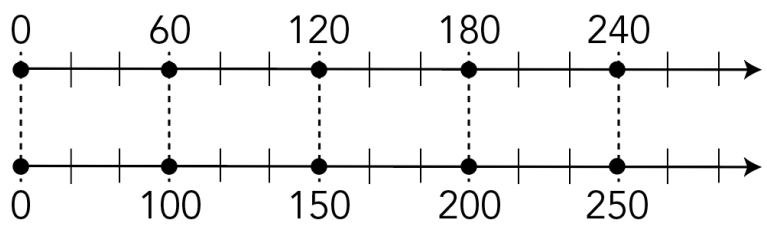


Objective Using and Comparing Ratio Representations



Warm-Up

Use the double number line to create a ratio table



x					
y					

Create a scenario that fits the data on the double number line and ratio table. What ratio is associated with your scenario?



Two different jogging situations are given on the next two pages, along with a diagram showing the current relationship between the joggers.

1. Use the handout Mr. Gilbes gave you, there are diagrams, equations, graphs, and verbal statements that each match one of the situations. Cut them out and tape them in their appropriate location. Then explain why each representation describes that relationship between the two joggers.

a. Choose the diagram that shows the relationship between the joggers after 5 minutes.

b. Choose the equation that represents the relationship between the two joggers.

c. Choose the graph that models the relationship between the two joggers.

d. Choose the type of relationship that exists between the two joggers.

These handouts will be made available to you.

Two joggers are running at the same speed.

Diagram of the current position of the two joggers.



Diagram of the two joggers after 5 minutes.

Explanation:

Equation

Explanation:

Graph

Explanation:

Verbal Statement

Explanation:

Jogger 2 runs twice as fast as Jogger 1.

Diagram of the current position of the two joggers



Diagram of the two joggers after 5 minutes.

Explanation:

Equation

Explanation:

Graph

Explanation:

Verbal Statement

Explanation:

Cut Out for Activity 6.4

$J_2 = J_1 + 10$	$J_2 = 2 J_1$
Ratio Relationship	Additive Relationship

Show You KNOW

In Goes the Kitchen Sink

You are given the ratio 6 red marbles : 9 blue marbles. For each model in the graphic organizer, write two ratios equivalent to the given ratio: one with numbers larger than the given and one with numbers smaller than the given. Show how you can use each model to determine the equivalent ratios.





LESSON 4.6c
One is Not Enough

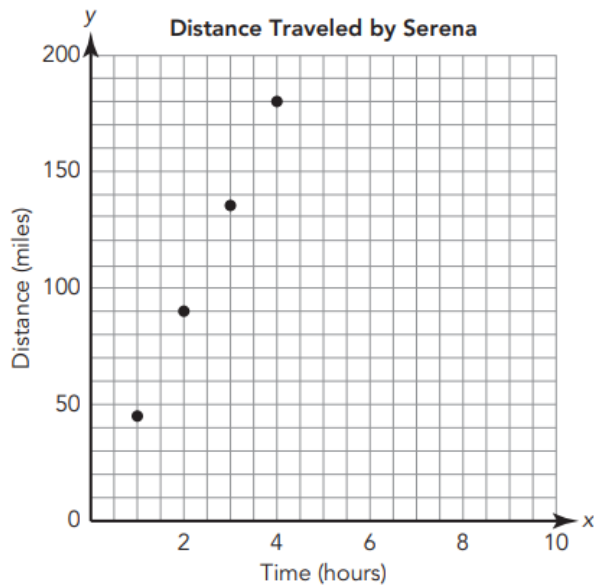


Objective Using and Comparing Ratio Representations

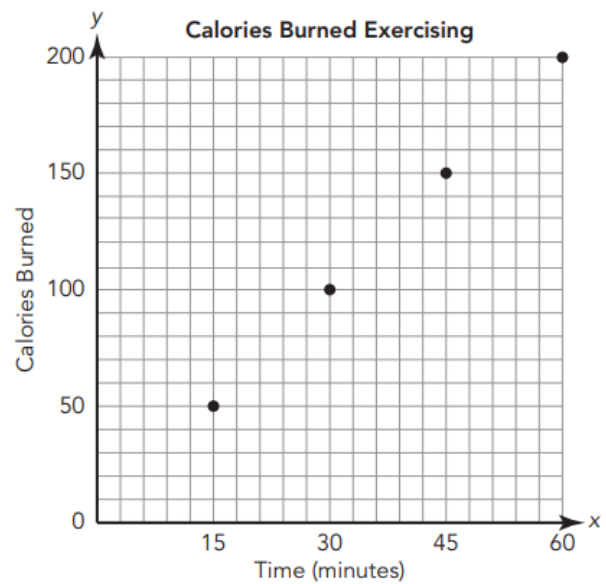
Practice

1. Use a graph to answer each question.

a. Serena is driving to the mountains for a summer camping trip. She is traveling at a constant rate of 45 miles per hour. The graph shows the ratio *time : distance*. How far has Serena traveled after 4 hours?



b. Cisco is exercising. The graph shows the ratio *calories burned : time* for Cisco. How many calories did Cisco burn in 30 minutes?



2. A recipe calls for 2 eggs for every 5 cups of milk. How many eggs were used if 20 cups of milk were used? Draw a double number line to answer the question.

3. Alberto is in charge of making lunch at a summer camp. He knows that 3 tuna casseroles will serve 15 campers. How many tuna casseroles should Alberto make to serve 35 campers?

Casseroles	1	3		
Campers		15	30	35

