





6.RP.1.3a, 6.RP.1.3b

The Webster family is taking an express train to Washington, D.C. The train travels at a constant speed and makes the trip in 2 hours.

Make a table to show the distance the train travels in various amounts of time.



2 3 4 5

Time (h)

300



STEP 1

Write a ratio of distance to time to find the rate.

$$\frac{\text{distance}}{\text{time}} = \frac{120 \text{ miles}}{2 \text{ hours}} = \frac{60 \text{ miles}}{1 \text{ hour}} = 60 \text{ miles per hour}$$

Use the unit rate to make a table. STEP 2

Time (h)	2	3	3.5	4	5
Distance (mi)	120	180	210	240	300

B Graph the information from the table.

STEP 1

Write ordered pairs. Use Time as the x-coordinates and Distance as the y- coordinates.

(2, 120), (3, 180), (3.5, 210), (4, 240), (5,300)

STEP 2

Graph the ordered pairs and connect the points.



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Guided Practice





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 The ratio of oxygen atoms to sulfur atoms in sulfur dioxide is always the same. The table shows the numbers of atoms in different quantities of sulfur dioxide. Complete the table. (Explors Activity 1)

Sulfur atoms	6	9	21	
Oxygen	12			54

What are the equivalent ratios shown in the table?

2. Use the table in Exercise 1 to graph the relationship between sulfur atoms and oxyge ms. (Explore Activity 2)

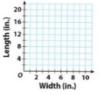


 Stickers are made with the same ratio of width to length. A sticker 2 inches wide has a length of 4 inches. Complete the table. (Explore Activity 1)

Width (in.)	2	4	7	
Length (in.)				16

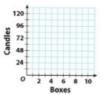
What are the equivalent ratios shown in the table?

4. Graph the relationship between the width and the length of the stickers from Exercise 3.(Explore Activity 2)



 Five boxes of candles contain a total of 60 candles.
 Each box holds the same number of candles. Complete the table and graph the relationship. (Example 1)

Boxes	5	8	
Candles			120



a

ESSENTIAL QUESTION CHECK-IN

6. How do you represent real-world problems involving ratios and rates with tables and graphs?



Nov. 6 Period 5

Warm Up- place pg. 89 on your desk Complete pg. 92 all #s

Class Work - Quiz Lesson 4.2

Homework - read and complete pgs. 93-94 all #s

$$\frac{2}{3} + \frac{6}{1} + \frac{1}{4} = \frac{2}{3}$$
 $\frac{2}{3} \cdot \frac{1}{4} = \frac{3}{4} = \frac{1}{9}$

