

Name \_\_\_\_\_

Date \_\_\_\_\_

## The Attributes of Data and Units of Measure - Step-by-Step Lesson

### Lesson 1 Investigation Problem:

Mary is traveling from her home towards her sister's home on a fast rocket. Her sister is traveling from her home toward Mary's home on a bullet train. The distance between Mary and her sister's home is 180 miles.



A chart could be used to include all the data necessary for writing an equation.

Name	Distance	Time	Miles per min
Mary	60miles	5 min	
Mary's sister	70miles	7 min	

- a. Complete the miles per min column of the chart.
- b. Who will reach the other person's home first?
- c. Mary and her sister have to go to the florist's shop. They drive Mary's car at 60 miles per hour. The shop is 200 miles away from their house. How long will it take to reach the shop?

### Explanation:

a)

Name	Distance	Time	Miles per min
Mary	60miles	5 min	12
Mary's sister	70miles	7 min	10

Miles per min = Distance / Time

Mary =  $60 / 5 = 12$  miles per min

Sister =  $70 / 7 = 10$  miles per min



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b) Mary goes  $60/5 = 12$  miles per minutes and her sister goes  $70/7 = 10$  miles per minutes.

So they cover 180 miles in:

$$\text{Mary} = 180 \div 12 = 15 \text{ min}$$

$$\text{Mary's Sister} = 180 \div 10 = 18 \text{ min}$$

So her sister makes it to Mary's home first.

c)  $200 \text{ miles} \div 60 \text{ mph} = \text{time in hours}$

3.33 hours

