Proportional Relationship Worksheets

1. Wesley walks at a constant speed from his house to school 1.5 miles away. It took him 25 minutes to get to school.

a) What fraction represents his constant speed, C?

b) You want to know how many miles he has walked after 15 minutes. Let y represent the distance he traveled after 15 minutes of walking at the given constant speed. Write a fraction that represents the constant speed, C, in terms of y.

c) Write the fractions from parts (a) and (b) as a proportion, and solve to find how many miles Wesley walked after 15 minutes.

d) Let y be the distance in miles that Wesley traveled after x minutes. Write a linear equation in two variables that represents how many miles Wesley walked after x minutes.

Proportional Relationship Worksheets

1. Wesley walks at a constant speed from his house to school 1.5 miles away. It took him 25 minutes to get to school.

a) What fraction represents his constant speed, C?

$$\frac{1.5}{25} = C$$

b) You want to know how many miles he has walked after 15 minutes. Let y represent the distance he traveled after 15 minutes of walking at the given constant speed. Write a fraction that represents the constant speed, C, in terms of y.

$$\frac{y}{15} = C$$

c) Write the fractions from parts (a) and (b) as a proportion, and solve to find how many miles Wesley walked after 15 minutes.

$$\frac{1.5}{25} = \frac{y}{15}$$
$$25y = 22.5$$
$$\frac{25}{25}y = \frac{22.5}{25}$$
$$y = 0.9$$

Wesley walks 0.9 *miles in* 15 *minutes.*

d) Let y be the distance in miles that Wesley traveled after x minutes. Write a linear equation in two variables that represents how many miles Wesley walked after x minutes.

$$\frac{1.5}{25} = \frac{y}{x}$$
$$25y = 1.5x$$
$$\frac{25}{25}y = \frac{1.5}{25}x$$
$$y = \frac{1.5}{25}x$$

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