

Proportional Relationship Worksheets

Eman walks from the store to her friend's house, 2 miles away. It takes her 35 minutes.

a) What fraction represents her constant speed, C ?

$$\frac{2}{35} = C$$

b) Write the fraction that represents her constant speed, C , if she walks y miles in 10 minutes.

$$\frac{y}{10} = C$$

c) Write and solve a proportion using the fractions from parts (a) and (b) to determine how many miles she walks after 10 minutes. Round your answer to the hundredths place.

$$\begin{aligned}\frac{2}{35} &= \frac{y}{10} \\ 35y &= 20 \\ \frac{35}{35}y &= \frac{20}{35} \\ y &= 0.57142 \dots\end{aligned}$$

Eman walks about 0.57 miles after 10 minutes.

d) Write a two-variable equation to represent how many miles Eman can walk over any time interval.

Let y represent the distance Eman walks in x minutes.

$$\begin{aligned}\frac{2}{35} &= \frac{y}{x} \\ 35y &= 2x \\ \frac{35}{35}y &= \frac{2}{35}x \\ y &= \frac{2}{35}x\end{aligned}$$

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