Proportional Relationship Worksheets

Erika drives from school to soccer practice 1.3 miles away. It takes her 7 minutes.

a) What fraction represents her constant speed, C?

b) What fraction represents her constant speed, C, if it takes her x minutes to drive exactly 1 mile?

c) Write and solve a proportion using the fractions from parts (a) and (b) to determine how much time it takes her to drive exactly 1 mile. Round your answer to the tenths place.

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

Proportional Relationship Worksheets

Erika drives from school to soccer practice 1.3 miles away. It takes her 7 minutes.

a) What fraction represents her constant speed, C?

$$\frac{1.3}{7} = C$$

b) What fraction represents her constant speed, C, if it takes her x minutes to drive exactly 1 mile?

$$\frac{1}{x} = C$$

c) Write and solve a proportion using the fractions from parts (a) and (b) to determine how much time it takes her to drive exactly 1 mile. Round your answer to the tenths place.

$$\frac{1.3}{7} = \frac{1}{x}$$
$$1.3x = 7$$
$$\frac{1.3}{1.3}x = \frac{7}{1.3}$$
$$x = 5.38461\ldots$$

It takes Erika about 5.4 minutes to drive exactly 1 mile.

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

Let y be the number of miles Erika travels in x minutes.

$$\frac{1.3}{7} = \frac{y}{x}$$
$$7y = 1.3x$$
$$\frac{7}{7}y = \frac{1.3}{7}x$$
$$y = \frac{1.3}{7}x$$