Proportional Relationship Worksheets

Alex skateboards at a constant speed from his house to school 3.8 miles away. It takes him 18 minutes.

a) What fraction represents his constant speed, C?

b) After school, Alex skateboards at the same constant speed to his friend's house. It takes him 10 minutes. Write the fraction that represents constant speed, C, if he travels a distance of y.

c) Write the fractions from parts (a) and (b) as a proportion, and solve to find out how many miles Alex's friend's house is from school. Round your answer to the tenths place.

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a) What fraction represents his constant speed, C?

$$\frac{3.8}{18} = \boldsymbol{C}$$

b) After school, Alex skateboards at the same constant speed to his friend's house. It takes him 10 minutes. Write the fraction that represents constant speed, C, if he travels a distance of y.

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

c) Write the fractions from parts (a) and (b) as a proportion, and solve to find out how many miles Alex's friend's house is from school. Round your answer to the tenths place.

$$\frac{3.8}{18} = \frac{y}{10}$$
$$3.8(10) = 18y$$
$$38 = 18y$$
$$\frac{38}{18} = y$$
$$2.1 \approx y$$

Alex's friend lives about 2.1 miles from school.