# Proportional Relationship Worksheets

1. Carlos walks $4$ miles every night for exercise. It takes him exactly $63$ minutes to finish his walk.

a) Assuming he walks at a constant rate, write an equation that represents how many miles, $y$, Carlos can walk in $x$ minutes.

b) Use your equation from part (a) to complete the table below. Use a calculator, and round all values to the hundredths place.

| $x$ (minutes) | Linear Equation: | $y$ (miles) |
|---|---|---|
| 15 | | |
| 30 | | |
| 40 | | |
| 60 | | |
| 75 | | |

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a) Assuming he walks at a constant rate, write an equation that represents how many miles, $y$, Carlos can walk in $x$ minutes.

$$\text{Since } \frac{4}{63} = C \text{ and } \frac{y}{x} = C, \text{ then}$$

$$\frac{4}{63} = \frac{y}{x}$$

$$63y = 4x$$

$$\frac{63}{63}y = \frac{4}{63}x$$

$$y = \frac{4}{63}x.$$

b) Use your equation from part (a) to complete the table below. Use a calculator, and round all values to the hundredths place.

| $x$ (minutes) | Linear Equation: $y = \frac{4}{63}x$ | $y$ (miles) |
|---|---|---|
| 15 | $y = \frac{4}{63}(15)$ | 0.95 |
| 30 | $y = \frac{4}{63}(30)$ | 1.90 |
| 40 | $y = \frac{4}{63}(40)$ | 2.54 |
| 60 | $y = \frac{4}{63}(60)$ | 3.81 |
| 75 | $y = \frac{4}{63}(75)$ | 4.76 |