

Lesson 10: A Critical Look at Proportional Relationships

Classwork

Example 1

Paul walks 2 miles in 25 minutes. How many miles can Paul walk in 137.5 minutes?

Time (in minutes)	Distance (in miles)
25	2

- b. What fraction represents constant speed, C , if it takes her x number of minutes to get halfway to her friend's house?
- c. Write and solve a proportion using the fractions from parts (a) and (b) to determine how many minutes it takes her to get to the halfway point.
- d. Write a two-variable equation to represent how many miles Stefanie can drive over any time interval.
3. The equation that represents how many miles, y , Dave travels after x hours is $y = 50x + 15$. Use the equation to complete the table below.

x (hours)	Linear Equation: $y = 50x + 15$	y (miles)
1	$y = 50(1) + 15$	65
2		
3		
3.5		
4.1		