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| October 7, 2014 | Today’s Objective |
|  | **What is a rate of change?**  **What’s a proportional relationship?**  **What is a proportion?**  **Determining a proportional relationship:**  Callie earns money by dog sitting. Based on the table, is the relationship between the amount Callie earns and the number of days a proportional relationship?   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **Number of Days** | 1 | 2 | 3 | 4 | 5 | | **Amount Earned ($)** | 16 | 32 | 48 | 64 | 80 |   Step 1: Write the rate.  Step 2: Compare the rates. Are the rates equal or unequal?  **What is a constant of proportionality?**  **Writing an equation for a proportional relationship:**  Two pounds of cashews shown cost $19, and 8 pounds cost $76. Show that  the relationship between the number of pounds of cashews and the cost is proportional relationship. Then write an equation for the relationship.  Step 1: Make a table relating cost to pounds.   |  |  |  |  |  | | --- | --- | --- | --- | --- | | Number of Pounds |  |  |  |  | | Costs ($) |  |  |  |  |   Step 2: Write the rates. Put cost in the numerator and pounds in the denominator. Then simplify each rate.  Step 3: Write the equation. |