

LESSON
2-2

Constant Rates of Change

Practice and Problem Solving: A/B

Use the table to determine whether the relationship is proportional. If so, write an equation for the relationship. Tell what each variable you used represents.

1.

Number of tickets	2	3	4	5
Total Cost (\$)	54	81	108	135

- a. Proportional? _____
- b. Equation: _____
- c. Number of tickets: _____
- d. Total Cost: _____

2.

Weight (lb)	4	5	46
Total Cost (\$)	17.40	21.75	200.10

- a. Proportional? _____
- b. Equation: _____
- c. Weight: _____
- d. Total cost: _____

3.

Time (h)	2	3	4	5	6
Pages Read	50	75	90	110	120

4.

Time (h)	2	3	4
Distance (mi)	80	120	160

The tables show proportional relationships. Find the constant of proportionality, k . Write an equation to represent the relationship between the two quantities. Tell what each variable represents.

5.

Pens	3	6	9	12
Boxes	1	2	3	4

6.

Pack	1	2	4	5
Muffins	6	12	24	30

7. a. Create a table to show how the number of days is related to the number of hours. Show at least 5 days.
- b. Is the relationship proportional? _____
 - c. Write an equation for the relationship. _____