DATE

Lesson 8 Reteach

Slope

Slope is the rate of change between any two points on a line.

slope = $\frac{\text{change in } y}{\text{change in } x} = \frac{\text{vertical change}}{\text{horizontal change}} \text{ or } \frac{\text{rise}}{\text{run}}$

Example

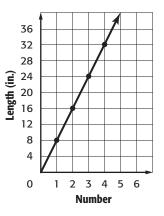
The table shows the length of a patio as blocks are added.

Number of Patio Blocks	0	1	2	3	4
Length (in.)	0	8	16	24	32

Graph the data. Then find the slope of the line.

Explain what the slope represents.

slope = $\frac{\text{change in } y}{\text{change in } x}$	Definition of slope		
$=\frac{24-8}{3-1}$	Use (1, 8) and (3, 24).		
$=\frac{16}{2}$	length number		
$=\frac{8}{1}$	Simplify.		



So, for every 8 inches, there is 1 patio block.

Exercises

Graph the data. Then find the slope of the line. Explain what the slope represents.

1. The table shows the number of juice bottles per case.

Cases	1	2	3	4
Juice Bottles	12	24	36	48

12; 12 juice bottles per case

2. At 6 A.M., the retention pond had 28 inches of water in it. The water receded so that at 10 A.M. there were 16 inches of water left.

-3; the water went down 3 inches per hour

