Lesson 8 Reteach

Slope

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

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

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.

$$slope = \frac{change in y}{change in x}$$

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

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.





