



PRACTICE AND PROBLEM SOLVING

Independent Practice						
For	See					
Exercises	Example					
12	1					
13	2					
14–15	3					
16–17	4					
18–19	5					

Extra Practice				
Skills Practice p. S12				
Application Practice p. S32				

12. The table shows the length of a baby at different ages. Find the rate of change for each time interval. Round your answers to the nearest tenth. During which time interval did the baby have the greatest growth rate?

Age (mo)	3	9	18	26	33
Length (in.)	23.5	27.5	31.6	34.5	36.7

13. The table shows the distance of an elevator from the ground floor at different times. Graph the data and show the rates of change.

Time (s)	0	15	23	30	35
Distance (m)	30	70	0	45	60

Find the slope of each line.









Tell whether the slope of each line is positive, negative, zero, or undefined.



The Incline Railway's climb up Lookout Mountain has been called "America's Most Amazing Mile." A round-trip on the railway lasts about 1.5 hours.



Travel The Lookout Mountain Incline Railway in Chattanooga, Tennessee, is the steepest passenger railway in the world. A section of the railway has a slope of about 0.73. In this section, a vertical change of 1 unit corresponds to a horizontal change of what length? Round your answer to the nearest hundredth.

21. Critical Thinking In Lesson 5-1, you learned that in a linear function, a constant change in *x* corresponds to a constant change in *y*. How is this related to slope?