Lesson 5 Homework Practice
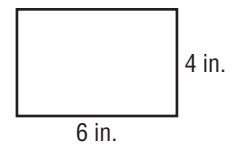
Percent of Change

For Exercises 1–14, find each percent of change. Round to the nearest whole percent if necessary. State whether the percent of change is an *increase* or *decrease*.

1. 8 feet to 10 feet
25% increase

2. 136 days to 85 days
38% decrease

3. $0.32 to $0.37
16% increase

4. 62 trees to 31 trees
50% decrease

5. 51 meters to 68 meters
33% increase

6. 16.5 grams to 24.8 grams
50% increase

7. 0.55 minute to 0.1 minute
82% decrease

8. $180 to $210
17% increase

9. 2.9 months to 4.9 months
69% increase

10. 0.5 to 0.75
50% increase

11. 0.1 to 0.2
100% increase

12. 1.5 to 0.375
75% decrease

13. **SURGERY** Recent developments in surgical procedures change the average healing time for some operations from 8 weeks to 3 weeks. **62.5% decrease**

14. **ROADS** The city added an extra lane in each direction to the 5-lane road. **40% increase**

15. **GEOMETRY** Refer to the rectangle shown. Suppose the width of 4 inches is decreased by 3 inches.
   a. Find the percent of change in the perimeter. **30% decrease**
   b. Find the percent of change in the area. **75% decrease**

4 in.
6 in.

16. **ANALYZE TABLES** Refer to the table that shows the average monthly rainfall during the first six months of the year for Singapore.

   a. Between which two consecutive months is the percent of decrease the greatest? What is the percent change to the nearest whole percent?
   January to February; 31% decrease

   b. Between which two consecutive months is the percent of increase the least? What is the percent change to the nearest whole percent?
   April to May; 2%

Month	Average Rainfall (inches/month)
January	9.4
February	6.5
March	6.8
April	6.6
May	6.7
June	6.4