

6.5 Practice AB

Find the new amount.

1. 12 dogs decreased by 25%
2. 140 fluid ounces increased by 45%

Identify the percent of change as an *increase* or a *decrease*. Then find the percent of change. Round to the nearest tenth of a percent, if necessary.

3. 5 cups to 8 cups
 4. 150 pounds to 135 pounds
 5. 14 dollars to 10 dollars
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6. Yesterday your bus ride to school took 10 minutes. Today your bus ride took 12 minutes. What is the percent of change?
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7. Yesterday 270 concert tickets were sold. Today 216 tickets were sold. Find the percent of change in the number of tickets sold from yesterday to today.
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8. This month a band has 6 musicians. This is a 50% increase from the number of musicians in the band last month. How many musicians were in the band last month?

9. The sides of a square garden are 8 feet long. **a.** You enlarge the garden to create a 25% increase in the length of each side. Find the new length of the sides.

b. Find the percent of change in the perimeter of the garden. Round to the nearest tenth of a percent, if necessary.

c. Find the percent of change in the area of the garden. Round to the nearest tenth of a percent, if necessary.

Find the new amount.

10. 15 customers increased by 200%

11. 4200 fans increased by 0.5%

Identify the percent of change as an *increase* or a *decrease*. Then find the percent of change. Round to the nearest tenth of a percent, if necessary.

12. 3.2 kilograms to 2.4 kilograms

13. 41 euros to 85 euros

14. Last month you swam the 50-meter freestyle in 28.38 seconds. Today you swam it in 27.33 seconds. What is your percent of change? Round to the nearest tenth of a percent, if necessary.
15. Last week 1200 burgers were served at the Burger Barn. **a.** This week 1176 burgers were served. What is the percent of change?
16. The price of a share of a stock was \$37.50 yesterday. **a.** Today there was a price decrease of 4%. What is today's price?
- b.** Based on today's price in part (a), what percent of change is needed to bring the price back up to \$37.50? Round to the nearest tenth of a percent, if necessary.

17. The table shows the membership of two scout troops.

Year	Troop A	Troop B
2010	14	21
2011	16	24

- a.** What is the percent of change in membership from 2010 to 2011 for Troop A? Round to the nearest tenth of a percent, if necessary.
- b.** What is the percent of change in membership from 2010 to 2011 for Troop B? Round to the nearest tenth of a percent, if necessary.
- c.** Which troop has the better record in terms of the number of new members?