Name Date

Practice A

6.5

Find the new amount.

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

 3. 100 textbooks increased by 99% 4. 75 students decreased by 80%

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.

 5. 5 cups to 8 cups 6. 150 pounds to 135 pounds

 7. 14 dollars to 10 dollars 8. 28 seconds to 23 seconds

 9.  to  10.  to 

 11. Yesterday your bus ride to school took 10 minutes. Today your bus ride took 12 minutes. What is the percent of change?

 12. Yesterday 270 concert tickets were sold. Today 216 tickets were sold.

 a. Find the percent of change in the number of tickets sold from yesterday to today.

 b. Use the percent of change from part (a) to predict the number of tickets sold tomorrow. Round to the nearest ticket, if necessary.

 c. Find the predicted percent of change in the number of tickets sold
from yesterday to tomorrow. Round to the nearest tenth of a percent,
if necessary.

 13. 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?

 14. 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.

Name Date

Practice B

6.5

Find the new amount.

 1. 55 employees increased by 20% 2. 25° decreased by 60%

 3. 15 customers increased by 200% 4. 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.

 5. 3.2 kilograms to 2.4 kilograms 6. 41 euros to 85 euros

 7.  to  8.  to 

 9. 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.

 10. Last week 1200 burgers were served at the Burger Barn.

 a. This week 1176 burgers were served. What is the percent of change?

 b. Use the percent of change from part (a) to predict the number of burgers served next week. Round to the nearest whole number, if necessary.

 11. 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.

|  |  |  |
| --- | --- | --- |
| **Year** | **Troop A** | **Troop B** |
| **2010** | 14 | 21 |
| **2011** | 16 | 24 |

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

 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?

 d.Which troop has the better record in terms of the percent of change
in membership?