Homework 10-3

Allen   **Percent of Change**   **Unit 10**

Review. Round to the nearest tenth if necessary.

1. $|3|+2-6$

4. $\dfrac{17-(-3+5)}{3}$

2. $\dfrac{-12}{-3(5-3)}$

5. $\dfrac{2-(-2)}{-1}$

3. $-6-1+4(-1)$

6. $2 \cdot -2 \cdot 3 \cdot 4$

Find each percent of change. Also tell whether each is a percent increase or a percent decrease. Round to the nearest whole percent (no decimal) if necessary.

7. original: 35
    new: 70

9. original: 45
    new: 30

11. original: $75
    new: $60

8. original: 8
    new: 12

10. original: $350
    new: $400

12. original: 250
    new: 100

Find each percent of change. Also tell whether each is a percent increase or a percent decrease. Round to the nearest whole percent (no decimal) if necessary.

13. $30 to $110

15. $12.50 to $15

17. 45 to 63

14. 35 to 28

16. 80 to 52

18. 120 to 132

19. A popular brand of running shoes costs a local store $68 for each pair. If the store sells the shoes for $119, what is the percent of increase in the price? **Round to the nearest whole percent (no decimal) if necessary.**

20. Last year the backgammon club had 30 members. This year the club has 24 members. Find the percent of decrease in the number of members. **Round to the nearest whole percent (no decimal) if necessary.**

21. In the seventh grade, Rachel read 15 books. In the eighth grade she read 18 books. Find the percent of increase in the number of books Rachel read. **Round to the nearest whole percent (no decimal) if necessary.**

22. Last year 762 students voted in the student council election at San Bruno Middle School. This year 721 students voted. To the nearest tenth, what was the percent of change in the number of students that voted? **Round to the nearest whole percent (no decimal) if necessary.**