

Percentages**Multiple Choice**

Identify the choice that best completes the statement or answers the question.

- _____ 1. A number is decreased from 67 to 27. Find the decrease as a percent.
a. 40% b. 148% c. 60% d. 15%
- _____ 2. The price of a jacket is decreased from \$174 to \$105. Find the decrease in price as a percent. Round to the nearest tenth if necessary.
a. 65.7% b. 39.7% c. 69% d. 6.6%
- _____ 3. Find the decrease in price as a percent. Round to the nearest percent.
Regular price: \$135
Sale price: \$83.00
a. 39% b. 63% c. 6% d. 52%
- _____ 4. In a survey, 410 students, or 50% of the students surveyed, said they would likely attend university after high school. How many students were surveyed?
a. 360 students b. 205 students c. 460 students d. 820 students
- _____ 5. There are 751 people under the age 20 in Pierce City. This represents 12% of the total population. What is the total population?
a. 6258 people b. 4506 people c. 7510 people d. 6408 people
- _____ 6. Find the change in altitude if a weather balloon moves from 180 m to 108 m. Round to the nearest tenth if necessary. Describe the change as a percent increase or decrease.
a. 78.7%; increase b. 34%; decrease c. 40%; increase d. 40%; decrease

Short Answer

7. 130% of a number is 78. What is the number?
8. A bike is on sale for \$646. This is 15% off the regular price. What is the regular price of the bike?
9. The attendance on the first night of the school concert was 375. The attendance on the second night was 420. What was the percent increase in attendance?

Problem

10. In 2000, the circulation of a local newspaper was 3250.
In 2001, its circulation was 3640.
In 2002, the circulation was 4100.
a) Find the percent increase of the newspaper's circulation from 2000 to 2001, and from 2001 to 2002.
b) Which period had a higher percent increase, 2000 to 2001, or 2001 to 2002?
Show your work.