

Lesson 5 Problem-Solving Practice

Percent of Change

<p>1. SHOES 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? 75%</p> <p>① $119 - 68 = 51$ ② $\frac{51}{68} = 0.75$</p>	<p>2. CLUBS 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. 20%</p>
<p>3. READING 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. 20%</p>	<p>4. VOTES Last year 762 students voted in the student council election at San Bruno Middle School. This year 721 students voted. What was the percent of change in the number of students that voted to the nearest tenth? 5.4% decrease</p>
<p>5. HEIGHT When Ricardo was 9 years old, he was 56 inches tall. Ricardo is now 12 years old and he is 62 inches tall. Find the percent of increase in Ricardo's height to the nearest tenth. 10.7%</p>	<p>6. PLANTS Alicia planted 45 tulip bulbs last year. This year she plans to plant 65 bulbs. Find the percent of increase in the number of tulip bulbs to the nearest tenth. 44.4%</p>
<p>7. PICTURES The 2008 yearbook at Middleton Middle School had 236 candid pictures of students. The 2007 yearbook had 214 candid pictures of students. What was the percent of change in the number of candid student pictures from 2007 to 2008 to the nearest tenth? 10.3%</p> <p>① $\begin{array}{r} 236 \\ - 214 \\ \hline 22 \end{array}$ ② $\frac{22}{214} = 0.102804$ 0.103</p>	<p>8. POPULATION In 2000, Florida's population was 15.9 million. In 2008, the population was estimated to be 18.8 million. Find the percent of increase to the nearest whole number. 18%</p>