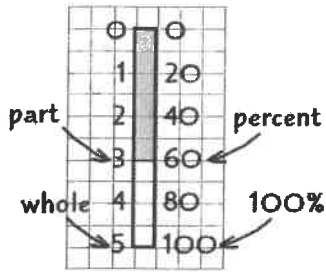


Problem-Solving Practice

The Percent Proportion

<p>1. DRIVING Mudrik installed a device on his car that guaranteed to increase his gas mileage by 15%. He currently gets 22 miles per gallon. How much will the gas mileage increase after installing the device?</p>	<p>2. POPULATION The number of students at Marita's school decreased to 98% of last year's number. Currently, there are 1,170 students. How many students were there last year? Round to the nearest whole number.</p>
<p>3. VOTING Yolanda's club has 35 members. Its rules require that 60% of them must be present for any vote. At least how many members must be present to have a vote?</p>	<p>4. GARBAGE This month, Chun's office produced 690 pounds of garbage. Chun wants to reduce the weight of garbage produced to 85% of the weight produced this month. What is the target weight for the garbage produced next month?</p>
<p>5. SALARIES Yara just received a 6% raise in salary. Before the raise, she was making \$52,000 per year. How much more will Yara earn next year?</p>	<p>6. SPORTS Sally's soccer team played 25 games and won 17 of them. What percent did the team win?</p>

5.3 Percent Proportion NOTES



$$\frac{\text{PART (is)}}{\text{WHOLE (of)}} = \frac{\text{PERCENT (\%)}}{100}$$

Example 1. There are 435 students total and 55 of them like the color purple the best. What percent of them like the color purple?

Example 2. Yolanda's club has 40 members. Its rules state that 80% of them must be present in order to vote. At least how many members must be present to have a vote?

1. On his trip across town, Mark was stopped by a red light at 9 out of 15 intersections. At what percent of intersections was Mark stopped by a red light?

2. In Las Vegas, Nevada, the skies are clear on 92% of the days. How many days in the month of June would you expect the skies to be clear in Las Vegas? Round the answer to the nearest day.

3. A recent poll shows that 65% of adults are in favor of increased funding for education. The number of adults surveyed for the poll was 140. How many of the adults surveyed were in favor of increased funding for education?

4. Mika's rosebush had 24 blooms in the first week of May. This was 80% as many blooms as Tammy's rosebush had during the same period. How many blooms did Tammy's rosebush have?

5. If 12 of the 75 animals in a pet store are parakeets, what percent are parakeets?