Number

Activity 19 Assessment Applying Proportional Reasoning to Solve Problems

Applying Proportional Reasoning to Solve Problems			
Understands the concept of rate and unit rate	Understands that unit rate is proportional	Solves a proportional problem involving percent	Uses a variety of strategies to solve problems involving ratios, rates, and percents
A rate is a comparison of two quantities with different units (e.g., 3 kg cost \$6, 100 km in 2 h). Unit rate is the rate for one unit (e.g., \$2/kg, 50 km/h)	The average speed of a cyclist is 25 km/h. How far will the cyclist travel in 3 h? Cyclist travels 25 km in 1 h. So, in 3 h, cyclist travels: 3 x 25 km = 75 km	4 students in a class play hockey. This is 20% of the class. 30% of the class play soccer. How many students play soccer? 20% is 4 students. So, 10% is 2 students. And 30% is 3(2) = 6 students	On a class trip, for every 3 students who skied, 2 snow-boarded. 64 students snow-boarded. How many students skied? Let s represent the number of students who skied. Solve a proportion. $\frac{x 32}{s}$ $\frac{s}{64} = \frac{3}{2}$ $\frac{s}{5} = 3 \times 32$ $s = 96$ 96 students skied.
Observations/Documentation			