## Activity 19 Assessment

Applying Proportional Reasoning to Solve Problems

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