## Activity 7 Assessment

Exploring Probability Using Venn Diagrams

| Exploring Probability Using Venn Diagrams |  |  |  |
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| Understands that the sum of all possible probabilities is $100 \%$ <br> When tossing 2 coins, the possible outcomes are: <br> H, H; T, T; T, H; H, T <br> The probability of 2 heads is $25 \%$. <br> The probability of 2 tails is $25 \%$. <br> The probability of 1 heads and 1 tails is $50 \%$. <br> The sum of the probabilities is: $25 \%+25 \%+50 \%=100 \%$ | Explains a Venn diagram with probabilities <br> Students in a Grade 8 class were asked whether they skate or ski. <br> Winter Sports <br> $65 \%$ of students skate. <br> $25 \%$ of students ski. <br> $5 \%$ of students skate and ski. <br> $15 \%$ of students neither skate nor ski. | Calculates percents in a Venn diagram <br> Winter Sports <br> There are 25 students in the class. About how many students neither skate nor ski? $\begin{gathered} \begin{array}{c} 15 \% \text { of } 25 \\ =0.15 \times 25=3.75 \end{array} \end{gathered}$ <br> About 4 students neither skate nor ski. | Uses and explains how a Venn diagram represents probabilities <br> I asked students in my class whether they played baseball or soccer in the summer. <br> Here are the results. <br> $30 \%$ play soccer. <br> $80 \%$ play baseball. <br> $20 \%$ play baseball and soccer. <br> $10 \%$ play neither sport. <br> The percents on the Venn diagram add to $100 \%$, but the sum of the separate percents above is greater than $100 \%$ because the $20 \%$ who play both sports is added two more times. <br> Sumner Sports |
| Observations/Documentation |  |  |  |
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