

Session 2 Reasoning Activities

You will need a die (or use a random number generator) to complete this activity.

Roll the die twice and use the results to fill in the boxes below to make the sum.

Try 1

$$\begin{array}{|c|} \hline \\ \hline 5 \\ \hline \end{array} + \begin{array}{|c|} \hline \\ \hline 15 \\ \hline \end{array} = \begin{array}{|c|} \hline \\ \hline \\ \hline \end{array}$$

Try 2

$$\begin{array}{|c|} \hline \\ \hline 5 \\ \hline \end{array} + \begin{array}{|c|} \hline \\ \hline 15 \\ \hline \end{array} = \begin{array}{|c|} \hline \\ \hline \\ \hline \end{array}$$

Try 3

$$\begin{array}{|c|} \hline \\ \hline 5 \\ \hline \end{array} + \begin{array}{|c|} \hline \\ \hline 15 \\ \hline \end{array} = \begin{array}{|c|} \hline \\ \hline \\ \hline \end{array}$$

1. What is the smallest fraction you can make?


2. What is the largest fraction you can make?


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3. What is the fraction closest to  $\frac{1}{3}$  you can make?