

Addition targets

Add whole numbers with up to 6 digits using the normal written method



You will need:
• 0–9 dice

Rule
Record your calculations like this:

$$\begin{array}{r}
 \square \square \square \square \square \\
 + \square \square \square \square \square \\
 \hline
 \hline
 \end{array}$$

1 Your target is to get an answer as close to 70 000 as possible.

Roll the dice ten times and decide where to write the digit. Then work out the answer to the calculation. Do this ten times.

2 Which of your calculations is closest to 70 000?

1 Your target is to get an answer as close to 700 000 as possible.

Roll the dice twelve times and decide where to write the digit. Then work out the answer to the calculation. Do this ten times.

2 Which of your calculations is closest to 700 000? Explain how you know.

Rule
Record your calculations like this:

$$\begin{array}{r}
 \square \square \square \square \square \square \\
 + \square \square \square \square \square \square \\
 \hline
 \hline
 \end{array}$$


3 Play this game with a partner.

- Write out an empty 6-digit + 6-digit calculation like the one shown in Question 1.
- Both choose your own target number.
- Take turns to roll the dice and decide where to write the digit in the empty calculation.
- When the calculation is complete, work out the answer.
- The winner is the player whose answer is closest to their target number. Play five rounds.



Challenge 3

1 Your target is to get an answer as close to 1 000 000 as possible.

Roll the dice twelve times and decide where to write the digit. Then work out the answer to the calculation. Do this ten times.

2 Which of your calculations is closest to 1 000 000? Explain how you know.

3 Did your answers get closer to the target number the more calculations you did? Explain why or why not.

4 Repeat the steps in Question 1 but instead of using the dice use the digits below. You can choose two of them to use twice. What is the closest answer you can make to 1 000 000?

Rule
Record your calculations like this:

$$\begin{array}{r}
 \square \square \square \square \square \square \\
 + \square \square \square \square \square \square \\
 \hline
 \hline
 \end{array}$$
