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# Teaching Numeracy


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## Dice Add Up

### Purpose:

- To give practice in making fives and tens.

### You need:

- Five 1-6 dice
- Scrap paper
- Pencil

### How to play:

- Roll 5 dice.
- Write the numbers down for example, 5, 6, 6, 4, 1.
- Roll 5 dice again.
- Write the numbers down for example, 3, 1, 5, 2, 2.
- Look at both sets of numbers and see how many groups of ten and 5 can be made crossing out the numbers used as they go. For example, 5, 6, 6, 4, 1, 3, 1, 5, 2, 2.
- From these numbers the following grouping can be made.

$$\begin{array}{ccccccc}
 5 + 5 & 6 + 4 & 6 + 3 + 1 & 2 + 2 + 1 \\
 \downarrow & \downarrow & \downarrow & \downarrow \\
 10 & + 10 & + 10 & + 5 + 3
 \end{array}$$

### Variations:

- Roll 5 dice only once and use those numbers to group.
- Roll 5 dice 4 times and use those numbers to group.
- What are the highest numbers you could get with the number of times they are rolled?
- After several sets of rolling 5 dice 3 times is there a number that appears more than once?
- Could you make a statement about what you have noticed?

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