Activity: Numbers to Twelve

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Quest for Learning
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You will need: Two 1-6 dice, whiteboards and pens.

Before you start: -

Instructions:

- Each player should write the numbers 1-12 on their whiteboard.

1	2	3	4	5	6	7	8	9	10	11	12

- Each player then takes it in turn to roll the two dice. They have to add, subtract, multiply or divide these numbers to produce a number from 1 to 12. They then cross this number off their whiteboard, for example:
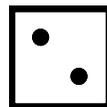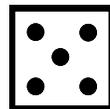
> If I roll 5 and 2 then I could make either:
> 7 (i.e. 5 + 2 = 7)
> 3 (i.e. 5 – 2 = 3)
> 10 (i.e. 5 x 2 = 10)
> I would then cross off one of these numbers.

- Each player can only cross off one number for each of their turns.

- The winner is the first player to cross out all of the numbers on their whiteboard.

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Questions

- What different numbers can you make using dice?
- How did you work out that answer?
- How can you make…? What different ways can you make…?
- Can you use a different operation?
- Which numbers to 12 is it possible to make using multiplication?

The mathematics

In this game children will rehearse recall of simple addition, subtraction, multiplication and division facts.
The activity will also help them to consider the impact of the four operations.
In order to be successful, children will also need to consider alternatives and make strategic choices.

Simplifications:

Limit the operations to addition and subtraction.

Children write numbers 1 to 10 so they rehearse facts up to 10 e.g. 3 x 2 = 6, 5 + 4 = 9...

Encourage children to jot down informal workings or use concrete materials for calculation.

Challenges:

Add an extra dice so that children can use a variety of operations and make larger numbers (e.g. 5 x 4 + 3 = 23).