

# Making Numbers

You need  a set of digit cards (0–9)       a set of cards showing brackets ( )  
 a set of operation cards (addition, subtraction, multiplication, and division)

## Activity One

1. Use any of the digit cards, bracket cards, and operation cards to make the number 8.  
 Each card can only be used once in each equation.  
 Here are three ways to make 8:

$$8 = 6 + 2$$

$$8 = 24 \div (9 - 6)$$

$$8 = 34 - 26$$

What other ways can you make 8?

2. Try to make other target numbers such as 7, 9, 10, and 11.

## Activity Two

1. For this challenge, use only the 2, 3, 4, 5, addition, subtraction, multiplication, division, and bracket cards.  
 Use these cards to make the numbers from 1 to 20.  
 Each card can be used only once in each equation.  
 For example:

$$1 = 3 - 2$$

$$17 = 2 + (3 \times 5)$$

$$18 = 23 - 5$$

2. Some numbers can be made in many different ways.
- Which numbers are easiest to make?
  - Why?