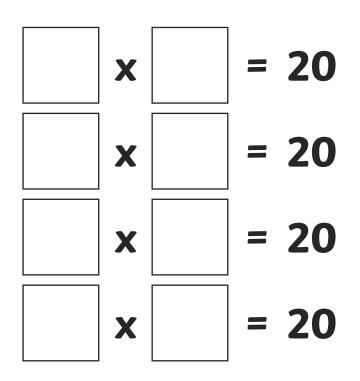# Find the Numbers
Reasoning about Multiplication

Adult Information: Children in year 2 are expected to know the multiplication facts in the 2x, 3x, 5x and 10x tables and the related division facts. They also learn about the relationship between multiplication and division and how each is the 'inverse' of the other. Once children are secure with their understanding of this, they are able to carry out more complex reasoning activities. Encourage your child to think about all the possible options and to be methodical, perhaps starting with the lowest numbers and working their way up. They may also notice that, like addition, multiplication is 'commutative' – that is, two or more numbers can be multiplied in any order and the answer will still be the same.

Find the Numbers
Reasoning about Multiplication
Answers

Some of the numbers from these number sentences have been stolen! What numbers could they be? Write down all the possible answers.

$1 \times 10 = 10$

$10 \times 1 = 10$

$2 \times 5 = 10$

$5 \times 2 = 10$

$2 \times 6 = 12$

$6 \times 2 = 12$

$3 \times 4 = 12$

$4 \times 3 = 12$

$2 \times 10 = 20$

$10 \times 2 = 20$

$5 \times 4 = 20$

$4 \times 5 = 20$

Find the Numbers
Reasoning about Multiplication

Some of the numbers from these number sentences have been stolen! What numbers could they be? Write down all the possible answers.

☐ x ☐ = 10   ☐ x ☐ = 12

☐ x ☐ = 10   ☐ x ☐ = 12

☐ x ☐ = 10   ☐ x ☐ = 12

☐ x ☐ = 10   ☐ x ☐ = 12

☐ x ☐ = 20

☐ x ☐ = 20

☐ x ☐ = 20

☐ x ☐ = 20

How many different ways can you group the objects equally to make the total? Try sharing out the objects and write the related number sentences.

2 Groups

3 Groups

5 Groups

10 Groups