

Maths Challenges:

1)

True or false?

$$7 \times 6 = 7 \times 3 \times 2$$

$$7 \times 6 = 7 \times 3 + 3$$

Explain your reasoning.

Can you write the number 30 as the product of 3 numbers?

Can you do it in different ways?

2)

Place one of these symbols in the circle to make the number sentence correct:
>, < or =.

Explain your reasoning.

8×50	<input type="radio"/>	50×8
8×50	<input type="radio"/>	80×5
300×3	<input type="radio"/>	5×200

You could also use the
the wordswords
greater than, less
than, or equal to.

3)

Three children calculated 7×6 in different ways.
Identify each strategy and complete the calculations.

Annie

$$7 \times 6 = 7 \times 5 + \square$$
$$= \square$$

Bertie

$$7 \times 6 = 7 \times 7 - \square$$
$$= \square$$

Cara used the commutative law

$$7 \times 6 = \square \times \square$$
$$= \square$$

Now find the answer to 6×9 in three different ways.

4)

Multiply a number by itself and then make one factor one more and the other one less. What happens to the product?

E.g.

$4 \times 4 = 16$

$6 \times 6 = 36$

$5 \times 3 = 15$

$7 \times 5 = 35$

What do you notice? Will this always happen?

5)

What do you notice about the following calculations? Can you use one calculation to work out the answer to other calculations?

$2 \times 3 =$

$6 \times 7 =$

$9 \times 8 =$

$2 \times 30 =$

$6 \times 70 =$

$9 \times 80 =$

$2 \times 300 =$

$6 \times 700 =$

$9 \times 800 =$

$20 \times 3 =$

$60 \times 7 =$

$90 \times 8 =$

$200 \times 3 =$

$600 \times 7 =$

$900 \times 8 =$