



## **Multiplication Puzzle Part II**

Place digits from 1 to 9 in the boxes to make the calculation correct.

No digit can be repeated and you cannot use zero.



This is one example:

3	4
×	2
6	8

How many different ways can you do it?

## **Support for Parents and Carers**

Encourage your child to be methodical and systematic when trying to make all the possible multiplications. As the calculation is a two-digit number multiplied by a onedigit number which gives a two-digit answer, a useful system might be to start with the smallest value one-digit number, in this case, 1. Children should realise that a number multiplied by 1 gives the same number, which will mean they are repeated digits, so the one-digit number cannot be 1.

Trying the next single digit number, would mean multiplying by 2.

Encourage children to consider a system for these numbers too, such as:

 $13 \times 2 = 26$  (\* the digit 2 is repeated)  $14 \times 2 = 28$  (\* the digit 2 is repeated)





96

- 15 × 2 = 30 (**×** there is no 0 digit)
- 16 × 2 = 32 (**×** the digit 2 is repeated)
- 17 × 2 = 34 (✓ no digits are repeated)
- $18 \times 2 = 36$  ( $\checkmark$  no digits are repeated)
- 19 × 2 = 38 (✓ no digits are repeated)

Children could then move onto two-digit numbers starting with 2, recognising that they cannot use any of these as the 2 would be repeated.

Children don't have to follow this system, but if they are struggling to organise their work, you could offer this as a suggestion.

13 ×

## Solutions

17 × 2 = 34	
18 × 2 = 36	
19 × 2 = 38	
34 × 2 = 68	
38 × 2 = 76	
39 × 2 = 78	
43 × 2 = 86	
48 × 2 = 96	

16 × 3 = 48	13
18 × 3 = 54	17
19 × 3 = 57	18
26 × 3 = 78	19
27 × 3 = 81	
29 × 3 = 87	

Γ	13 × 4 = 52
	17 × 4 = 68
	18 × 4 = 72
	19 × 4 = 76

6 = 78	12 × 7 = 84	12 × 8 =
	14 × 7 = 98	