

Multiplying a 2-digit number by a 1-digit number

When multiplying a 2-digit number by a 1-digit number, we use both mental and written methods.

20×6 3×6

0 120 138

23×6

$$23 \times 6 = (20 \times 6) + (3 \times 6)$$

$$= 120 + 18$$

$$= 138$$

6	20	3	=	138
	120	18		

23

$$\begin{array}{r} 23 \\ \times 6 \\ \hline 138 \end{array}$$

1 For each of these multiplication calculations:

- estimate the answer
- work out the answer
- use a different method to check your answer.

	1st calculation	2nd calculation
$76 \times 8 =$ <div style="text-align: center; margin-top: 10px;"> <p style="color: blue; font-weight: bold;">Estimate</p> </div>		
$87 \times 6 =$ <div style="text-align: center; margin-top: 10px;"> <p style="color: blue; font-weight: bold;">Estimate</p> </div>		
$96 \times 7 =$ <div style="text-align: center; margin-top: 10px;"> <p style="color: blue; font-weight: bold;">Estimate</p> </div>		

2 Arrange each set of digits to make a multiplication calculation, then work out the answer.

4
5
7

$$\boxed{} \boxed{} \times \boxed{} = \boxed{}$$

3
8
6

$$\boxed{} \boxed{} \times \boxed{} = \boxed{}$$

- 3 Multiply each blue number by a red number to give an answer that is a green number. Draw lines to link the red number to the blue number and the green number.

3	37	432
8	42	612
6	58	174
9	54	294
7	68	222

- 4 Use the digits 2 to 9 to complete each of these calculations. Each digit can only be used once.

2	3	4	5	6	7	8	9
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$$48 \times \square = 144$$

$$27 \times \square = 243$$

$$75 \times \square = 525$$

$$53 \times \square = 265$$

$$66 \times \square = 264$$

$$94 \times \square = 752$$

$$39 \times \square = 234$$

$$82 \times \square = 164$$

Ask your child to write down a 2-digit number and a 1-digit number, e.g. 86 and 4. Then ask them to estimate the product of these two numbers. Ask: 'If you multiply 86 by 4, approximately what is the answer? How did you get that approximation? What digit will be in the ones place? Why?'