Multiplying a 3-digit number by a 1-digit number

When multiplying a 3-digit number by a 1-digit number, we use both mental and written methods.

$$465 \times 7$$

$$465 \times 7 = (400 \times 7) + (60 \times 7) + (5 \times 7)$$
$$= 2800 + 420 + 35$$
$$= 3255$$

	400	60	5		
7	2800	420	35	=	3255

$$\begin{array}{r} 465 \\ \times\,_4\,_3\,7 \\ \hline 3255 \end{array}$$

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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
167 × 4 = **Estimate** ( )		
384 × 6 = **Estimate** ( )		
693 × 7 = **Estimate** ( )		

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

2
3
7
9

☐☐☐ × ☐ = ☐
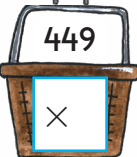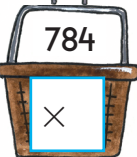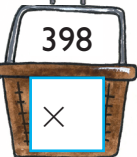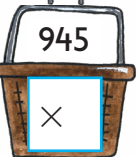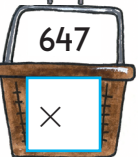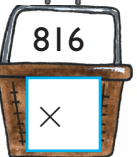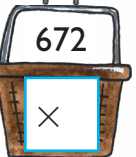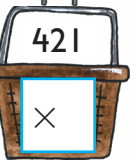
4
5
6
8

☐☐☐ × ☐ = ☐

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.

4	672	2565
7	855	1992
8	498	3360
3	907	2568
5	321	6349

4 Use the digits 2 to 9 to complete each of the calculations on the baskets so that the answers are correct on the balloons. Each digit can only be used once.

| 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |

Balloon: 3143 — Basket: 449 ×

Balloon: 6272 — Basket: 784 ×

Balloon: 1592 — Basket: 398 ×

Balloon: 4725 — Basket: 945 ×

Balloon: 1294 — Basket: 647 ×

Balloon: 4896 — Basket: 816 ×

Balloon: 6048 — Basket: 672 ×

Balloon: 1263 — Basket: 421 ×

Ask your child to write down a 3-digit number and a 1-digit number, e.g. 538 and 6. Then ask them to estimate the product of these two numbers. Ask: 'If you multiply 538 by 6, approximately what is the answer? How did you get that approximation? What digit will be in the units place? Why?'