**1** Complete the multiplication.

|   |   | 1 | 2 | 3 | 4 |
|---|---|---|---|---|---|
| × |   |   |   | 2 | 1 |
|   |   | 1 | 2 | 3 | 4 |
|   | 2 | 4 | 6 | 8 | 0 |
|   | 2 | 5 | 9 | 1 | 4 |
|   |   |   | 1 |   |   |

(1,234 × **1** )

(1,234 × **20** )

**2** Tommy is calculating 1,234 × 26

**a)** Complete his working out.

|   |   | 1 | 2 | 3 | 4 |
|---|---|---|---|---|---|
| × |   |   |   | 2 | 6 |
|   | 7$_1$ | 4$_2$ | 0$_2$ | 4 |
|   | 2 | 4 | 6 | 8 | 0 |
|   | 3 | 2 | 0 | 8 | 4 |
|   |   | 1 | 1 |   |   |

( **1,234** × **6** )

( **1,234** × **20** )

**b)** Fill in the grid to check Tommy's working is accurate.
You may use place value counters to help.

| × | 1,000 | 200 | 30 | 4 |
|---|---|---|---|---|
| 20 | 20,000 | 4,000 | 600 | 80 |
| 6 | 6,000 | 1,200 | 180 | 24 |

**3** Rosie is calculating 2,541 × 42

Here is Rosie's working.

|   | 2 | 5 | 4 | 1 |   |
|---|---|---|---|---|---|
| × |   |   | 4 | 2 |   |
|   | 4$_1$ | 0 | 8 | 2 | (2,541 × 2) |
|   | 8$_2$ | 0$_1$ | 6 | 4 | (2,541 × 40) |
| 1$_1$ | 2 | 1$_1$ | 4 | 6 |   |

**a)** Rosie has made two mistakes. What are they?

She hasn't correctly exchanged.
She has multiplied by 4 not 40

**b)** What is the correct answer?

106,722

**4** Work out the multiplications.

**a)** 4,284 × 23

|   | 4 | 2 | 8 | 4 |
|---|---|---|---|---|
| × |   |   | 2 | 3 |
| 1 | 2$_2$ | 8 | 5 | 2 |
| 8 | 5 | 6 | 8 | 0 |
| 9 | 8 | 5 | 3 | 2 |
|   | 1 | 1 |   |   |

**b)** 2,142 × 46

|   | 2 | 1 | 4 | 2 |
|---|---|---|---|---|
| × |   |   | 4 | 6 |
| 1 | 2 | 8$_2$ | 5 | 2 |
| 8 | 5 | 6 | 8 | 0 |
| 9 | 8 | 5 | 3 | 2 |
|   | 1 | 1 |   |   |

What do you notice?

**5** A machine makes 2,734 boxes every hour.
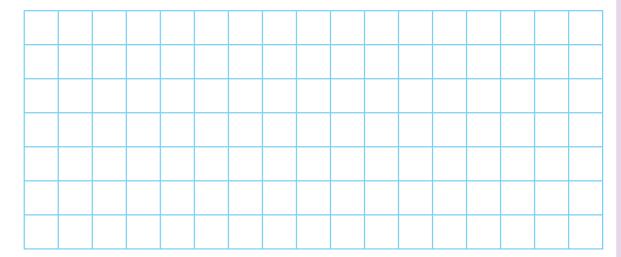
The machine works for 3 hours each day.

**a)** How many boxes will it make in 12 days?

98,424

**b)** Compare methods with a partner. Were there any other ways you could have worked out the answer?

**6** Work out 378 × 7 × 12

Show your method clearly.

31,752

**7**

| 1 | 2 | 3 | 4 | 5 | 6 |

☐ ☐ ☐ ☐

× ☐ ☐

**a)** Using all the digit cards, create 4 different calculations and work out the answer to each.

Various answers.

**b)** Write your answers in ascending order.

**c)** What is the smallest product that can be made?   32,544

**8** Amir scores 4,680 points in a computer game for 12 games in a row.

Whitney scores 2,512 points every game for 24 games.

Who scores more points?   Whitney

Amir: 56,160

Whitney: 60,288

How many more?   4,128