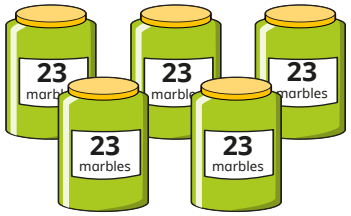
Multiply a 2-digit number by a 1-digit number – with exchange

1 There are 23 marbles in a jar.

There are 5 jars.



Tens	Ones

Use the base 10 to help you complete the sentences to work out how many marbles there are in total.

5 × 3 ones = ☐

5 × 2 tens = ☐

☐ + ☐ = ☐

5 × 23 = ☐

There are ☐ marbles in total.

2 Work out 4 × 15

Tens	Ones
10	1 1 1 1 1
10	1 1 1 1 1
10	1 1 1 1 1
10	1 1 1 1 1

4 × 5 = ☐

4 × 10 = ☐

☐ + ☐ = ☐

4 × 15 = ☐

3 Complete the sentences to work out the multiplications.

a)

Tens	Ones
10 10	1 1 1 1
10 10	1 1 1 1
10 10	1 1 1 1

3 × ☐ = ☐

3 × ☐ = ☐

☐ + ☐ = ☐

3 × 24 = ☐

b)

Tens	Ones
10 10 10	1 1 1 1 1
10 10 10	1 1 1 1 1
10 10 10	1 1 1 1 1
10 10 10	1 1 1 1 1

☐ × ☐ = ☐

☐ × ☐ = ☐

☐ + ☐ = ☐

35 × 4 = ☐

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10	1 1 1 1 1
10	1 1 1 1 1
10	1 1 1 1 1

4 × 5 = ☐

4 × 10 = ☐

☐ + ☐ = ☐

4 × 15 = ☐

3 Complete the sentences to work out the multiplications.

a)

Tens	Ones
10 10	1 1 1 1
10 10	1 1 1 1
10 10	1 1 1 1

3 × ☐ = ☐

3 × ☐ = ☐

☐ + ☐ = ☐

3 × 24 = ☐

b)

Tens	Ones
10 10 10	1 1 1 1 1
10 10 10	1 1 1 1 1
10 10 10	1 1 1 1 1
10 10 10	1 1 1 1 1

☐ × ☐ = ☐

☐ × ☐ = ☐

☐ + ☐ = ☐

35 × 4 = ☐

4 Work out the multiplications.

a) 4 × 24 **d)** 34 × 4 **g)** 5 × 26

b) 3 × 17 **e)** 25 × 5 **h)** 4 × 36

c) 3 × 25 **f)** 35 × 6

5 Find the missing numbers.

a) 22 × ☐ = 88 **b)** _1 × ☐ = 124

6 Here are some digit cards.

1	2	3	4	5	8

a) Use the digit cards to create a multiplication and work out the answer.

☐☐ × ☐ = ☐

b) Work with a partner to find calculations that have:

- an odd product
- an even product
- an exchange in the ones column
- an exchange in the ones and tens columns.