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 = [ ]

4 Work out the multiplications.

a) 4 × 24

e) 25 × 5

b) 3 × 17

f) 35 × 6

c) 3 × 25

g) 5 × 26

d) 34 × 4

h) 4 × 36

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.