White Rose Maths

1 Ron, Eva and Mo each have 23 marbles.

Tens	Ones
10 10 10	⊘ ⊘ ⊘
10 10	⊘ ⊘ ⊘
10 10	⊘ ⊘ ⊘

How many marbles are there in total?

3 × 3 ones = 9

3 × 2 tens = 60

3 × 23 = 69

9 + 60 = 69

There are 69 marbles in total.

2 Use the place value chart to work out 2 × 24

Complete the multiplication sentences.

Tens	Ones
(circles)	1 1 1 1
(circles)	1 1 1 1

2 × 4 = 8

2 × 20 = 40

2 × 24 = 48

3 Annie works out 43 × 2 = 86

Tens	Ones
(circles)	1 1 1
(circles)	1 1 1

	T	O
	4	3
×		2
	8	6

Talk about Annie's methods with a partner.

What is the same? What is different?

4 Complete the multiplications.

a)

	T	O	
	2	4	
×		2	
	4	8	

b)

	T	O	
	4	4	
×		2	
	8	8	

c) 31 × 3

T	O
3	1
×	3
9	3

d) 42 × 2

T	O
4	2
×	2
8	4

5 Compare answers with a partner.

Jack is trying to work out 34 × 2 using the column method.

> I'm not sure what to do.

×	3	4
		2
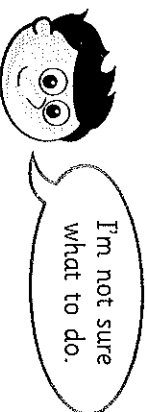
Show how Jack could improve his column method and work out the answer.

×	3	4
		2
	6	8

6 One toaster costs £32

How much do 3 toasters cost?
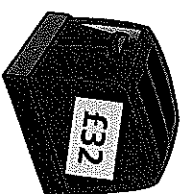
£32   £96

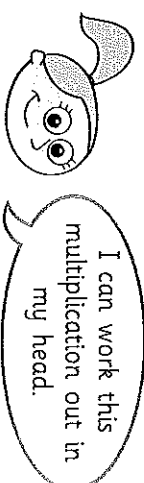**7** Whitney has multiplied a 2-digit number by a 1-digit number.

> I had to do 30 + 9 = 39 to get my answer.

What numbers is Whitney multiplying?

Fill in the missing digits.

×	1	3
		3
	3	9

8 Filip used the column method to work out 41 × 2

	4	1
×		2

> I can work this multiplication out in my head.

a) How do you think Eva will work this out in her head? Various answers.

b) Tick the multiplications that you can work out in your head. Various answers.

4 × 22	3 × 23	3 × 33
12 × 4	3 × 32	4 × 20