1 Work out the calculations.

You can use a written or a mental strategy.

If you use a mental method, explain how you did it.

a) 170 + 120 = [   ]
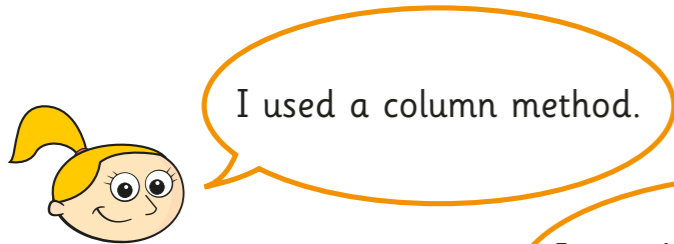
c) 75 × 100 = [   ]
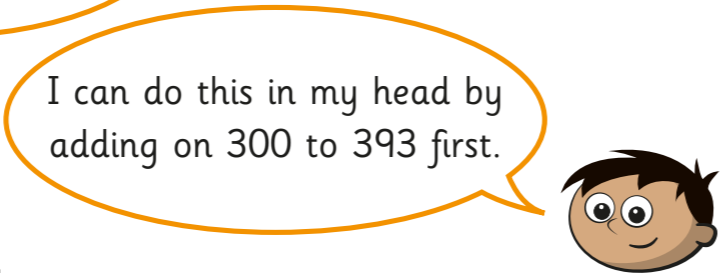
b) 15 × 36 = [   ]

d) 6.56 ÷ 2 = [   ]

Discuss your methods and answers with a partner.

Did you use the same method?

2 Eva and Amir are discussing how to work out 299 + 393

> I used a column method.

Eva

> I can do this in my head by adding on 300 to 393 first.

Amir

a) Complete Eva's method.

		2	9	9
	+	3	9	3

b) Explain what Amir did next.

_____

c) Explain why Amir's method works.

3 Tick the calculations that are quicker to do mentally than using a written method.

17 × 38   5 × 100   13 × 30

4,200 ÷ 7   1,950 ÷ 3   23 ÷ 0.5

For those that you can do mentally, write the answer next to the calculation.

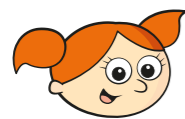**4** Mr Singh is buying five books.

Each book costs £4.99

£4.99

		4	9	9
	×			5
	2	4	9	5
		4	4	

£4.99 x 5 = £24.95

Explain a quicker, mental method that Mr Singh might have used.

_____

_____

_____

5 Alex wants to buy 28 cans of drink.

Each can costs 29p.

She has £10

29p

I need to use a calculator to work out if I've got enough money.

a) Explain how Alex can work this out mentally.

_____

_____

_____

b) Show how Alex can work this out using a written method.

c) Does Alex have enough money? _____

Compare answers with a partner.

6 Aisha works out 1,006 − 998

		0	9	9	
	$\cancel{1}$	$\cancel{\,0\,}$	$\cancel{\,0\,}$	¹6	
	−		9	9	8
		0	0	0	8

Explain a quicker way Aisha could have done this mentally.

_____

_____

7 Mrs Glover sets her class some questions.

Work out the answer to each calculation. Show each stage of your workings.

a)

101 + 202 + 303

b)

43 x 9

c)

29.43 + 3.74

d)

1,786 − 1,779

Compare your method with a partner's.

White Rose Maths