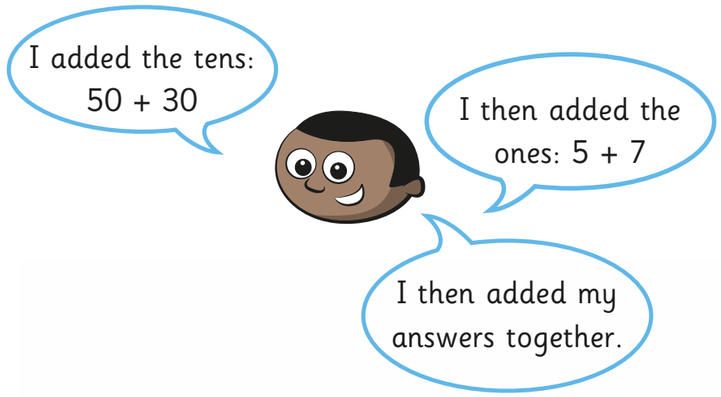
Mental calculations

1 Mo is working out 57 + 35 in his head.



a) Use Mo's method to work out 57 + 35 in your head. 92

b) Eva started by adding 57 and 30

What do you think Eva did next?

Add 5 to her total.

c) Work out the additions in your head. Write your answers.

25 + 48 = 73

250 + 480 = 730

62 + 55 = 117

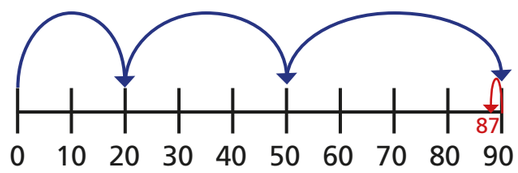
620 + 550 = 1,170

260 + 250 + 240 = 750

2 Whitney and Amir are working out 19 + 29 + 39

Talk about each method, and explore how they work.

Whitney's method



Amir's method

		1	9	
		2	9	
	+	3	9	
		8	7	
		2		

Which method do you think is most efficient? Why?

Various answers.

3 Use Whitney or Amir's method to solve the problems.

a) 49p + 79p = £1.28

b) 99 cm × 5 = 495cm

c) £10 – £5.99 = £4.01

d) 2 l – 199 ml – 399 ml = 1,402ml

4 **a)** Explain how you could work out this subtraction in your head.

750 – 230

E.g. 750 - 200 = 550

550 - 30 = 520

so 750 - 230 = 520

b) Explain how you could work out this subtraction in your head.

750 – 280

E.g. 750 − 300 = 450

450 + 20 = 470

so 750 − 280 = 470

c) Work out the subtractions in your head. Write your answers.

89 – 35 = 54

80 – 25 = 55

82 – 45 = 37

890 – 350 = 540

800 – 250 = 550

820 – 450 = 370

5

Cars for sale: price list	
Car A	£2,750
Car B	£19,500
Car C	£24,999
Car D	£45,000

a) What is the total price of all 4 cars?

£92,249

b) What is the difference between the most expensive and the least expensive cars?

£42,250

6 Work out the following multiplications in your head.

Write your answers.

a) 10 × 8 = 80

20 × 8 = 160

40 × 8 = 320

b) 18 × 10 = 180

18 × 20 = 360

18 × 200 = 3,600

c) 18 × 5 = 90

34 × 5 = 170

5 × 430 = 2,150

d) 21 × 6 = 126

7 × 32 = 224

336 = 84 × 4

Did you use the same method as your partner?

7 Choose the best method to solve each calculation.

Show your workings.

a) 2 × 19 × 5 = 190

b) 4 × 23 × 5 = 460

c) 25 × 9 × 3 × 4 = 2,700

d) 10 × 250 × 1.7 × 8 = 34,000