Mental calculations

1 Mo is mentally working out 57 + 35

> I added the tens: 50 + 30

> I then added the ones: 5 + 7

> I then added my answers together.

a) Use Mo's method to work out 57 + 35 mentally.

b) Eva started by adding 57 and 30

What do you think Eva did next?

_____

_____

c) Work out the additions mentally. Write your answers.

25 + 48 = ⬜   250 + 480 = ⬜

62 + 55 = ⬜   620 + 550 = ⬜
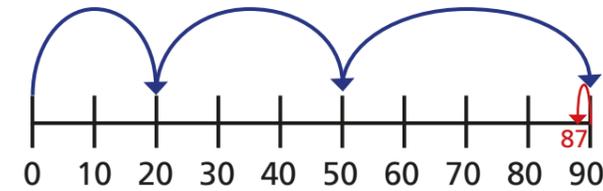
260 + 250 + 240 = ⬜

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

Talk about each method, and explore how they work.

Whitney's method

0 10 20 30 40 50 60 70 80 90
87

Amir's method

		1	9
		2	9
+		3	9
		8	7
		2	

Which method do you think is most efficient? Why?

_____

_____

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

a) 49p + 79p = ⬜

b) 99 cm × 5 = ⬜

c) £10 − £5.99 = ⬜

d) 2 l − 199 ml − 399 ml = ⬜

4 **a)** Explain how you could work out this subtraction mentally.

750 − 230

_____

_____

_____

b) Explain how you could work out this subtraction mentally.

750 − 280

_____

_____

_____

c) Work out the subtractions mentally. Write your answers.

89 − 35 = ☐   890 − 350 = ☐

80 − 25 = ☐   800 − 250 = ☐

82 − 45 = ☐   820 − 450 = ☐

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 four cars?

☐

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

☐

6 Work out the following multiplications mentally.

Write your answers.

a) 10 × 8 = ☐   **c)** 18 × 5 = ☐

20 × 8 = ☐   34 × 5 = ☐

40 × 8 = ☐   5 × 430 = ☐

b) 18 × 10 = ☐   **d)** 21 × 6 = ☐

18 × 20 = ☐   7 × 32 = ☐

18 × 200 = ☐   ☐ = 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 = ☐

b) 4 × 23 × 5 = ☐

c) 25 × 9 × 3 × 4 = ☐

d) 10 × 250 × 1.7 × 8 = ☐