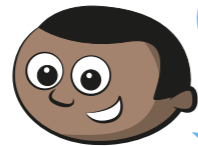


Mental calculations

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

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 $57 + 35$ 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

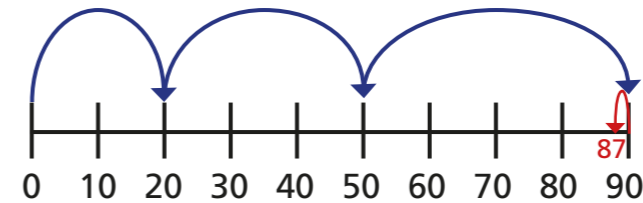
$62 + 55 =$ 117

$620 + 550 =$ 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) $99 \text{ cm} \times 5 =$ 495cm

c) $£10 - £5.99 =$ £4.01

d) $2 \text{ l} - 199 \text{ ml} - 399 \text{ ml} =$ 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.

$$89 - 35 = \boxed{54}$$

$$890 - 350 = \boxed{540}$$

$$80 - 25 = \boxed{55}$$

$$800 - 250 = \boxed{550}$$

$$82 - 45 = \boxed{37}$$

$$820 - 450 = \boxed{370}$$

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) $10 \times 8 = \boxed{80}$

c) $18 \times 5 = \boxed{90}$

$$20 \times 8 = \boxed{160}$$

$$34 \times 5 = \boxed{170}$$

$$40 \times 8 = \boxed{320}$$

$$5 \times 430 = \boxed{2,150}$$

b) $18 \times 10 = \boxed{180}$

d) $21 \times 6 = \boxed{126}$

$$18 \times 20 = \boxed{360}$$

$$7 \times 32 = \boxed{224}$$

$$18 \times 200 = \boxed{3,600}$$

$$\boxed{336} = 84 \times 4$$

Did you use the same method as your partner?

7

Choose the best method to solve each calculation.

Show your workings.

a) $2 \times 19 \times 5 = \boxed{190}$

b) $4 \times 23 \times 5 = \boxed{460}$

c) $25 \times 9 \times 3 \times 4 = \boxed{2,700}$

d) $10 \times 250 \times 1.7 \times 8 = \boxed{34,000}$

