

Mental Calculations

Watch the video: 'Mental Calculations'

You will need to click on the link below to access the video.

<https://whiterosemaths.com/homelearning/year-6/week-7-number-addition-subtraction-multiplication-division/>

Once you have watched the video, please choose your starting question and then complete as many as you can in 40 minutes.

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.



1 b) Eva started by adding 57 and 30

What do you think Eva did next?

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

$25 + 48 = \boxed{}$

$250 + 480 = \boxed{}$

$62 + 55 = \boxed{}$

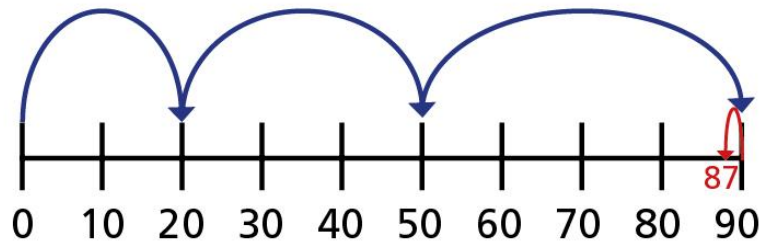
$620 + 550 = \boxed{}$

$260 + 250 + 240 = \boxed{}$



- 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?

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

a) $49p + 79p =$

b) $99 \text{ cm} \times 5 =$

c) $\text{£}10 - \text{£}5.99 =$

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

4

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

$$750 - 230$$

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

$$750 - 280$$

4

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

$89 - 35 = \square$

$890 - 350 = \square$

$80 - 25 = \square$

$800 - 250 = \square$

$82 - 45 = \square$

$820 - 450 = \square$

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?

- 5 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) $10 \times 8 =$

$20 \times 8 =$

$40 \times 8 =$

c) $18 \times 5 =$

$34 \times 5 =$

$5 \times 430 =$

b) $18 \times 10 =$

$18 \times 20 =$

$18 \times 200 =$

d) $21 \times 6 =$

$7 \times 32 =$

$= 84 \times 4$

Did you use the same method as your partner?



7 Choose the best method to solve each calculation.

Show your workings.

a) $2 \times 19 \times 5 =$

b) $4 \times 23 \times 5 =$

c) $25 \times 9 \times 3 \times 4 =$

d) $10 \times 250 \times 1.7 \times 8 =$