

# Mental addition and subtraction 1

## Discover

Work these out mentally.

Pair A

$$63 + \square = 90$$

$$263 + \square = 290$$

Pair B

$$45 + 23 = \square$$

$$450 + 230 = \square$$

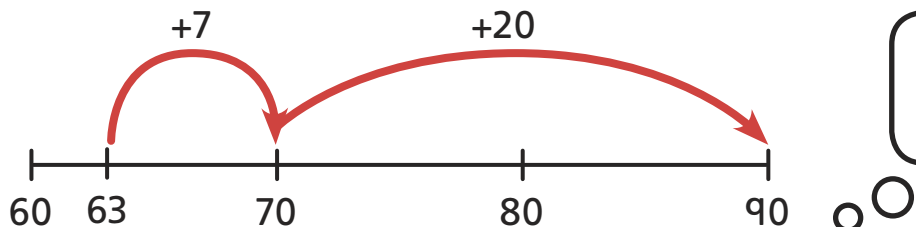
- 1 a) Work out the answers to Pair A in your head.  
Now explain to your partner how you worked them out.
- b) Work out the answers to Pair B in your head.  
Now explain to your partner how you worked them out.

## Share

In my head I worked out how many I need to add on to make the next 10, and then how many tens I need to add on.

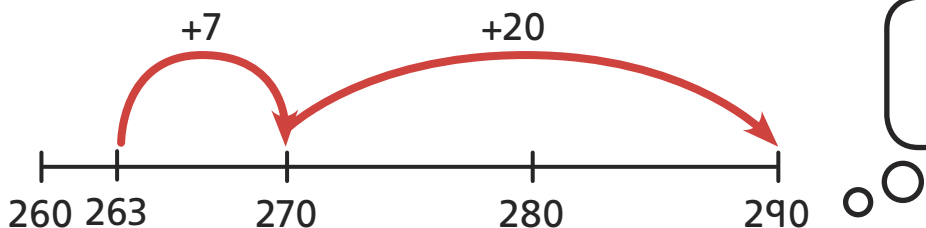


a)



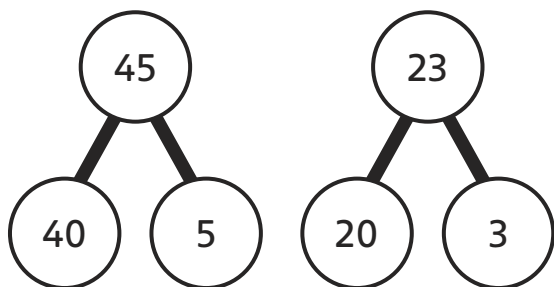
$$63 + 7 + 20 = 90$$

$$63 + 27 = 90$$



$$263 + 7 + 20 = 290$$

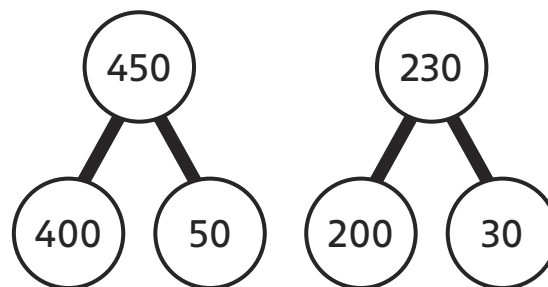
$$263 + 27 = 290$$

b)  $45 + 23 =$ 

$$40 + 20 = 60$$

$$5 + 3 = 8$$

$$45 + 23 = 60 + 8 = 68$$

 $450 + 230 =$ 

$$400 + 200 = 600$$

$$50 + 30 = 80$$

$$450 + 230 = 600 + 80 = 680$$

For these I looked at the parts and then added them separately. Finally, I added my answers at the end.

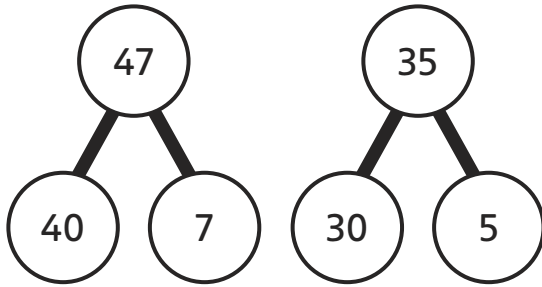


# Think together

1 Work out the answers to the following questions in your head.

Explain your method to your partner.

a)  $47 + 35$

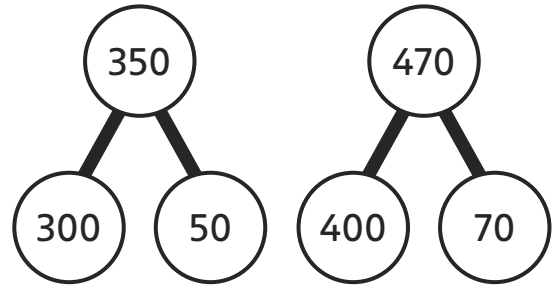


$$40 + 30 = \square$$

$$7 + 5 = \square$$

$$47 + 35 = \square + \square = \square$$

b)  $350 + 470$



$$300 + 400 = \square$$

$$50 + 70 = \square$$

$$350 + 470 = \square + \square = \square$$

2 Work out the answers to these questions in your head.

Explain your method to your partner.

a)

$$74 + 69 = \square$$

b)

$$740 + 690 = \square$$

I added on 60 to 74 and then added on 9.



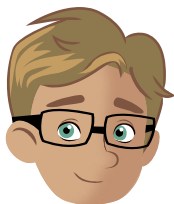
CHALLENGE

- 3 Andy is trying to work out the answers to the following calculations in his head.

$$324 + 198 = \square$$

$$324 + 197 = \square$$

Andy



I will first add 200 to 324

- a) What does Andy need to do next to find the answer to each calculation?
- b) Work out the answers to these calculations in your head.

$$672 + 99 = \square$$

$$7,608 + 1,998 = \square$$

$$426 + 397 = \square$$

$$18,790 + 39,990 = \square$$

$$296 + 3,147 = \square$$

I will add on more than I need to, and then subtract.

But how will you work out what to add on?

