

Steps to success:

- I can solve number problems by adding numbers up to 10. (Level 1)
- I can solve number problems by adding 1 and 2 digit numbers. (Level 2)
- I solve number problems with addition by writing the sums in different ways. (Level 3)

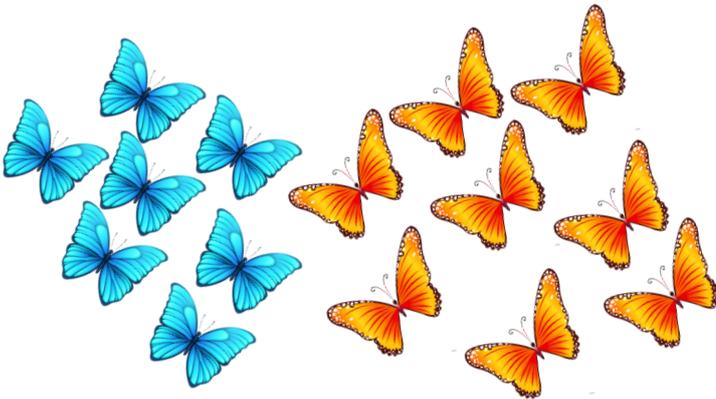
💡 Reasoning and problem solving: can you explain your answers?

Say what you see:



What maths sentence represents this?

	+		=	
--	---	--	---	--



What 2 maths sentences could represent this?

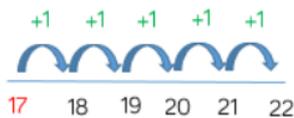
	+		=	
--	---	--	---	--

	+		=	
--	---	--	---	--

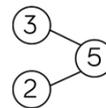
1. We have learnt how to add by counting on from the largest number.

Try doing this in your head:  $17 + 5 = \underline{\quad}$

We could show it on a number line like this,



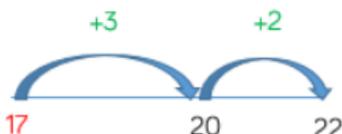
However we can use our number bonds to make it easier to calculate in your head.



Instead of adding 5, partition (split up) the 5 into  $3 + 2$ .

When you begin with 17, add the 3 first [because it's the number bond to 20] then add the 2.

It looks like this on a number line:



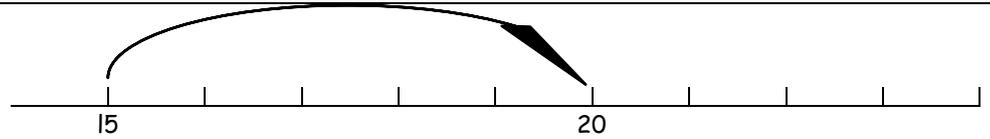
You still added 17 and 5, but you partitioned the 5 to make it easier.

2. Solve these addition sentences by using your number bonds to 20.

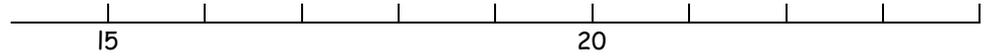
There is a number line to help you check your answer. (number lines don't have to start a 0, only use the numbers you need.)

Remember, partition the small number so you can jump to the next 10 and add the remainder.

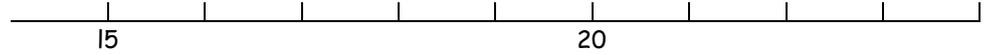
a)  $15 + 5 = \underline{\quad}$



$15 + 6 = \underline{\quad}$



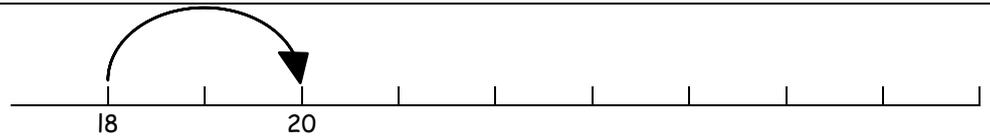
$15 + 7 = \underline{\quad}$



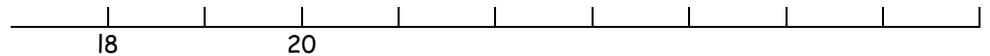
$15 + 8 = \underline{\quad}$



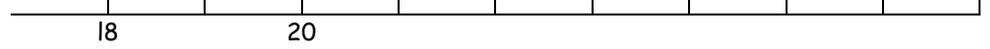
b)  $18 + 2 = \underline{\quad}$



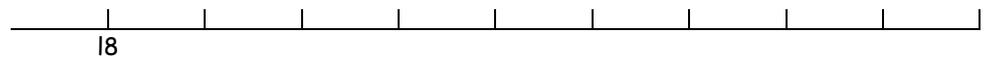
$18 + 3 = \underline{\quad}$



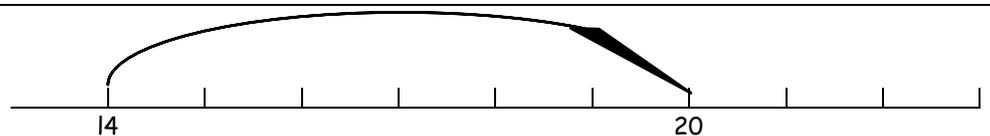
$18 + 4 = \underline{\quad}$



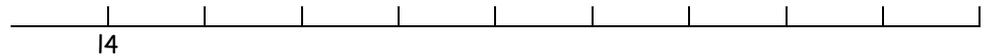
$18 + 5 = \underline{\quad}$



c)  $14 + 6 = \underline{\quad}$



$14 + 7 = \underline{\quad}$



$14 + 8 = \underline{\quad}$



$14 + 9 = \underline{\quad}$



3.

Here are three digit cards.



Place the digit cards in the number sentence.

How many different totals can you find?

$$\square \square + \square =$$

What is the smallest total?

What is the largest total?