

Friday 29.1.21

L.O. I can use my knowledge of addition to solve problems

First, let's remind ourselves of some of the addition words from last time:

I have 12 stickers and my friend gives me 5 more. How many stickers do I have now?

What is 12 plus 5?

My score last week was 12 and this week it has increased by 5 – what is my new score?

more

plus

increase

altogether

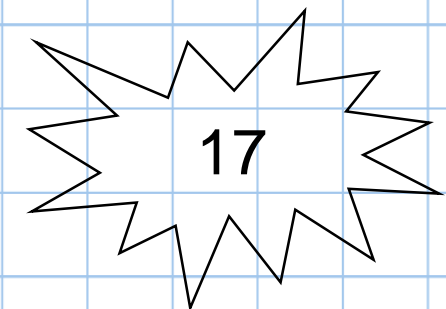
total

sum

I have 12 apples and 5 pears. How much fruit do I have altogether?

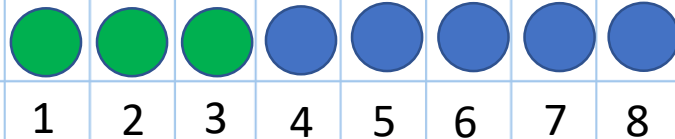
I score 12 goals and my friend scores 5. What is our total score?

What is the sum of 12 and 5?



We already know lots about addition facts!

We know that $3 + 5 = 8$



So we also know that

$5 + 3 = 8$



$8 - 3 = 5$

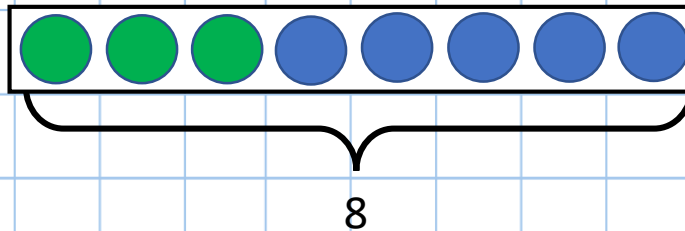


$8 - 5 = 3$



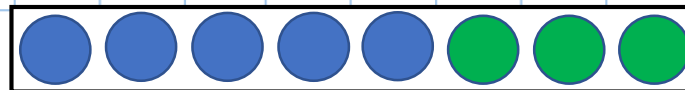
This helps us solve missing number problems:

$$3 + 5 = 8$$

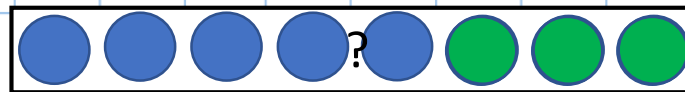


So we also know that

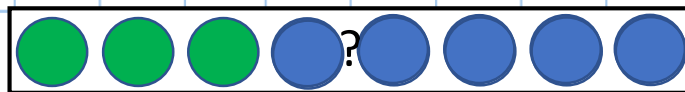
$$5 + \boxed{3} = 8$$



$$\boxed{8} - 3 = 5$$

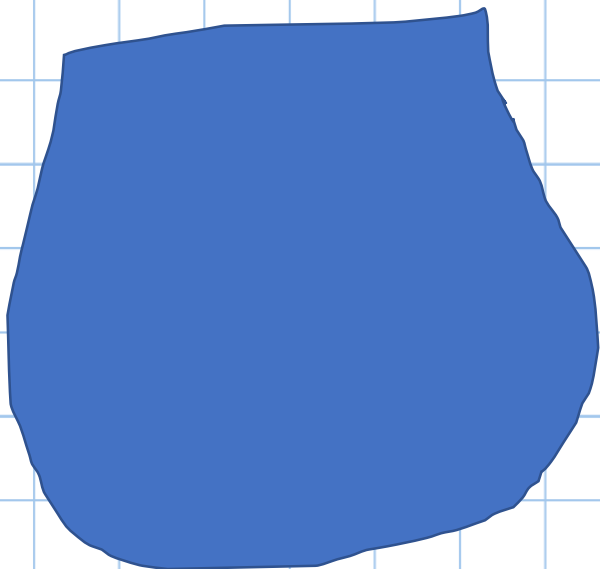


$$\boxed{8} - 5 = 3$$



Here is another way to look at it:

Here is a bag of apples.



I take out 3 apples.

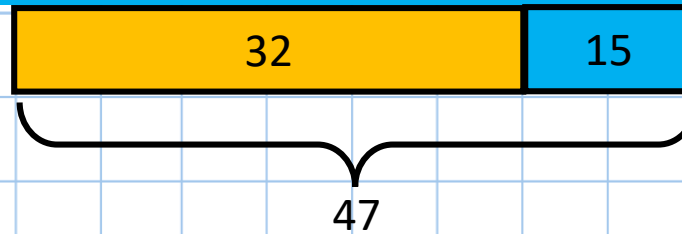
$$\boxed{?} - 3 = 5$$

There are 5 apples left in the bag.

How many apples were in the bag to begin with?

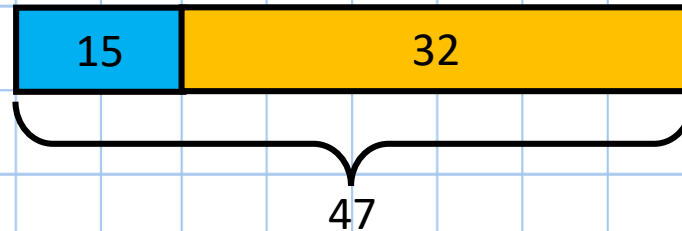
This works the same for bigger numbers too:

$$32 + 15 = 47$$

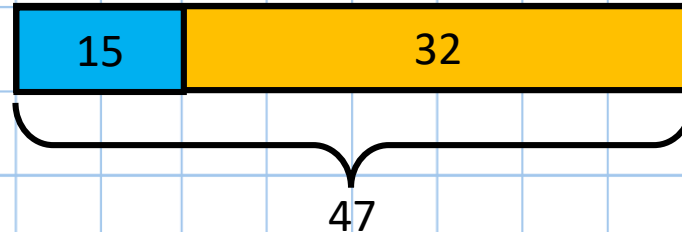


So we can solve these:

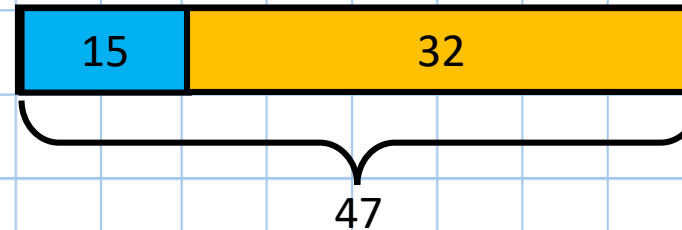
$$15 + 32 = 47$$



$$47 - 32 = 15$$



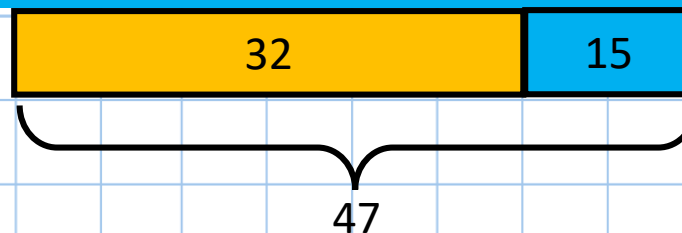
$$47 - 15 = 32$$



We can use this to solve problems:

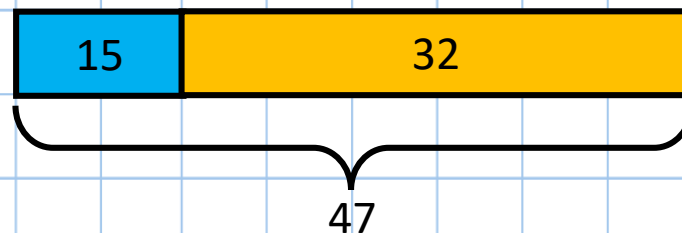
If we know that:

$$32 + 15 = 47$$



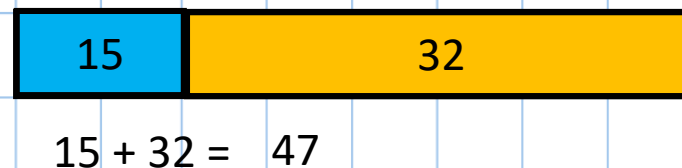
We also know that:

$$15 + 32 = 47$$

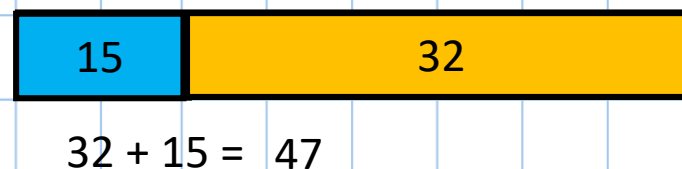


And we can work out these:

$$\boxed{47} - 32 = 15$$



$$\boxed{47} - 15 = 32$$



We might need to use the expanded method to work out the calculation:

$$15 + 32 = \square$$

h t o

1 5

3 2

+

7

(5 + 2 = 7)

4 0

(10 + 30 = 40)

4 7

$$15 + 32 = 47$$

Here's another example:

$$\square - 38 = 25$$

h	t	o	
	2	5	
	3	8	+
<hr/>			
	1	3	(5 + 8 = 13)
	5	0	(20 + 30 = 50)
<hr/>			
	6	3	

$$63 - 38 = 25$$

TASK: You should try to complete two sections

<u>EXTRA MILD</u>	<u>MILD</u>	<u>SPICY</u>	<u>HOT</u>
$16 + 4 = \square$	$26 + 30 = \square$	$122 + 215 = \square$	$427 + 225 = \square$
$\square - 4 = 16$	$\square - 26 = 56$	$337 - \square = 215$	$\square - 374 = 463$
$\square - 16 = 4$	$\square - 30 = 26$	$165 + 52 = \square$	$492 + 239 = \square$
$17 + 3 = \square$	$24 + 41 = \square$	$217 - 165 = \square$	$\square - 273 = 538$
$\square - 3 = 17$	$\square - 24 = 41$	$364 + 293 = \square$	$\square - 136 = 689$

Challenge: Can you make up some missing number questions of your own?