

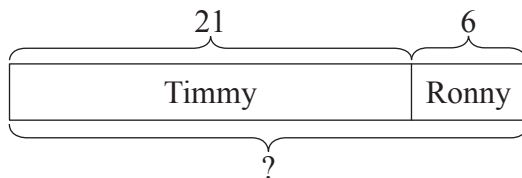
Addition and Subtraction within 40

Part-Whole Model

Example 1

Timmy has 21 storybooks.
Ronny has 6 storybooks.
How many storybooks do they have altogether?

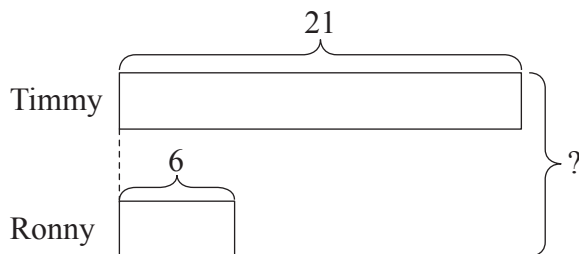
Solution 1:



$$21 + 6 = 27$$

They have 27 storybooks altogether.

Solution 2:



$$21 + 6 = 27$$

They have 27 storybooks altogether.

Working

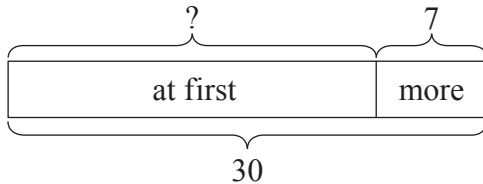
$$\begin{array}{r} 21 \\ + 6 \\ \hline 27 \end{array}$$

$$\begin{array}{r} 21 \\ + 6 \\ \hline 27 \end{array}$$

Example 2

There are some pens in a drawer.
Mr Ong puts 7 more pens in the drawer.
There are 30 pens in the drawer now.
How many pens are there in the drawer at first?

Solution:



$$30 - 7 = 23$$

There are 23 pens in the drawer at first.

We know that AFTER Mr Ong puts in another 7 pens, there are 30 pens in total. In order to find out the number of pens BEFORE this, we have to minus (take away) 7 pens from the total number of pens, which is 30. Therefore, the model is drawn as shown.

$$\begin{array}{r} 30 \\ - 7 \\ \hline 23 \end{array}$$

Working

Solve the following word problems using models.

Working

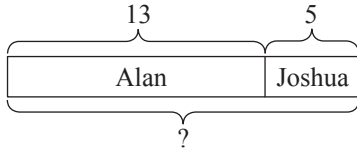
- 1 Alan has 13 books.
Joshua has 5 books.
How many books do they have altogether?

- 2 Joshua baked 39 cakes.
He gave 12 cakes to his brother.
How many cakes did Joshua have left?

Solutions:

Addition and Subtraction within 40

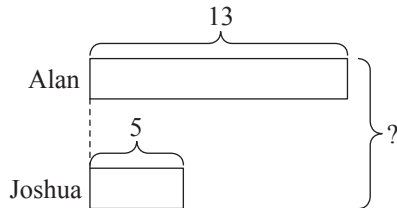
1 *Solution 1:*



$$13 + 5 = 18$$

They have 18 books altogether.

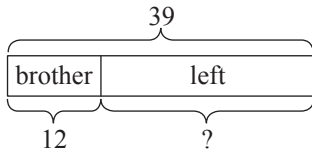
Solution 2:



$$13 + 5 = 18$$

They have 18 books altogether.

2



$$39 - 12 = 27$$

Joshua had 27 cakes left.

Adapted:

Conquer Model Drawing for Lower Primary Levels

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