

## Working with number sentences

### CAPS Statement

#### Patterns, Functions & Algebra

##### Number sentences:

- Write number sentence to describe problem situations

### Note

A number sentence is a group of numbers that includes a mathematical operation (addition, subtraction, multiplication and division). Just like a written sentence, a number sentence tells a fact. For example:  $7 + 5 = 12$

### Activity 1

Help Themba solve the following number sentence problems.

a  $8 + \square = 10$

d  $4 + 3 = \square$

b  $6 + \square = 9$

e  $3 + \square = 6$

c  $5 + 3 = \square$

f  $2 + \square = 5$

### Activity 2

Themba has been given homework on number sentences. He has done the first one but now he is struggling to continue with the rest of the sums. Can you help him?

#### Example

Thabo's mom baked 6 muffins. She gave Thabo and his friend 1 muffin each. She gave 2 to her neighbor and 1 fell on the floor, which the dog ate. How many muffins is she left with?

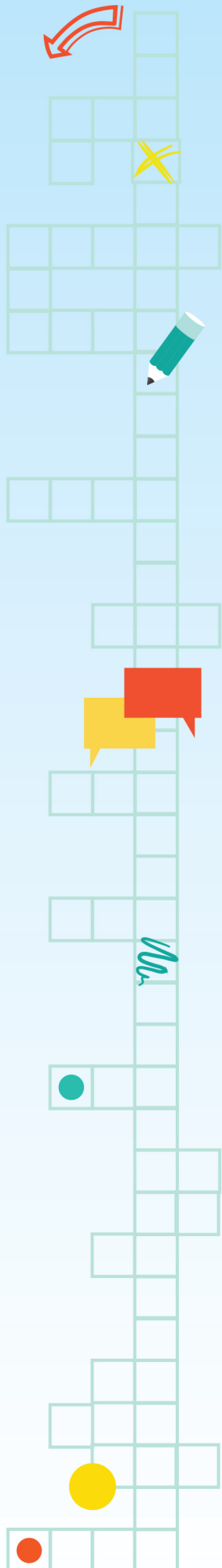
$6 - 2 - 2 - 1 = 1$

Thabo's mom is left with 1 muffin.



- a Lebo and 3 of his friends were at a braai. They had a packet of 20 marshmallows. If each of them ate 2 marshmallows, how many are left in the packet?

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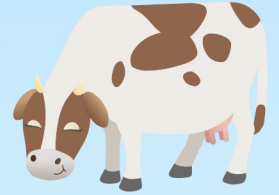




- (b) Sizwe has 2 dogs and 1 cat. One of his dogs had a litter of 5 puppies. A few months later, Sizwe gave 2 of the puppies to his friends. How many pets does Sizwe still have?



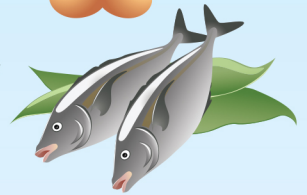
- (c) Kelly and her family live on a farm. Every morning Kelly needs to collect 12 litres of milk from the cows. Each cow gives 3 litres of milk a day. How many cows does Kelly need to milk?



- (d) Lerato wants to bake a cake for her birthday. She needs: flour, eggs, sugar, milk and cocoa powder. When she checks in her mother's cupboard, she realizes she only has sugar and milk. How many other ingredients does she need to bake the cake?



- (e) Themba and 6 of his friends went fishing. Each of them caught 2 fish but 1 fish escaped back into the river. How many fish do they have left in total?



## Activity 3

Complete the following calculations by filling in the correct answers.

### Example

$$100 - 40 = 60, \text{ therefore } 60 + 40 = 100$$

(a)  $25 - 15 = \square$ , therefore  $\square + 15 = \square$

(b)  $16 - 4 = \square$ , therefore  $\square + \square = \square$

(c)  $8 \times 2 = 16$ , therefore  $16 \div 2 = \square$

(d)  $12 \div 3 = \square$ , therefore  $\square \times 3 = \square$

(e)  $250 + 46 = \square$ , therefore  $\square - \square = \square$

### Teacher Tip

Before getting into the Grade 5 work, revise what was done in Grade 4 where learners mostly dealt with geometric patterns. Emphasise that the only difference now is that they are going to use number sentences.

