

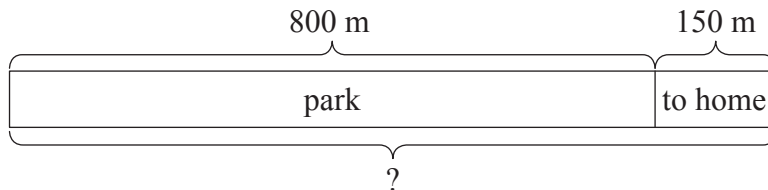
Length – Addition and Subtraction

Part-Whole Model – Addition

Example

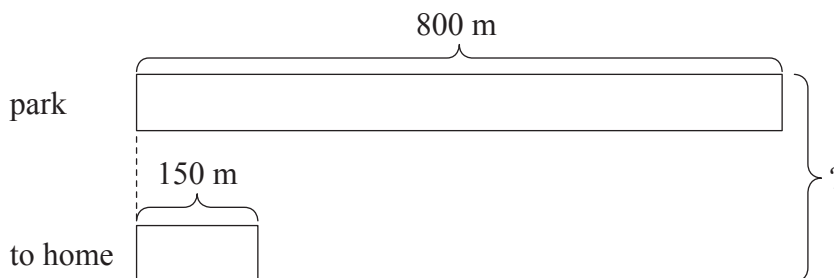
Joan jogged 800 m round a park.
She jogged another 150 m to home.
How far did Joan jog in all?

Solution 1:



$800\text{ m} + 150\text{ m} = 950\text{ m}$
Joan jogged 950 m in all.

Solution 2:



$800\text{ m} + 150\text{ m} = 950\text{ m}$
Joan jogged 950 m in all.

Working

$$\begin{array}{r} 800 \\ + 150 \\ \hline 950 \end{array}$$

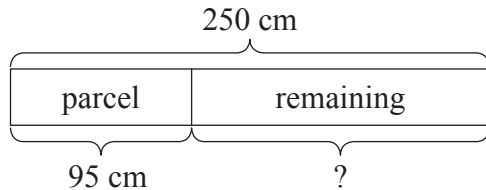
$$\begin{array}{r} 800 \\ + 150 \\ \hline 950 \end{array}$$

Part-Whole Model – Subtraction

Example

Ann had 250 cm of ribbon.
She used 95 cm to tie a parcel.
What was the remaining length of the ribbon?

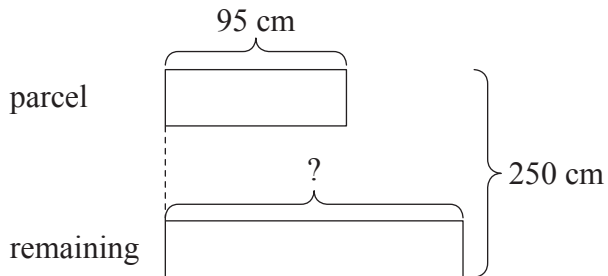
Solution 1:



$$250 \text{ cm} - 95 \text{ cm} = 155 \text{ cm}$$

The remaining length of the ribbon was 155 cm.

Solution 2:



$$250 \text{ cm} - 95 \text{ cm} = 155 \text{ cm}$$

The remaining length of the ribbon was 155 cm.

Working

$$\begin{array}{r} 1 \quad 14 \\ 2 \quad 5 \quad 0 \\ - \quad 9 \quad 5 \\ \hline 1 \quad 5 \quad 5 \end{array}$$

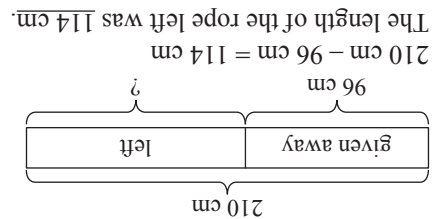
$$\begin{array}{r} 1 \quad 14 \\ 2 \quad 5 \quad 0 \\ - \quad 9 \quad 5 \\ \hline 1 \quad 5 \quad 5 \end{array}$$

Solve the following word problems using models.

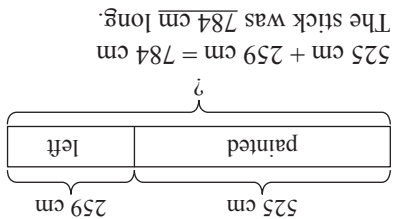
Working

- 1 Joyce had a rope which was 210 cm long.
She gave 96 cm to Dave.
What was the length of the rope left?

- 2 Judy painted 525 cm of a stick and was left with 259 cm to be painted the next day.
How long was the stick?



Solutions:



2