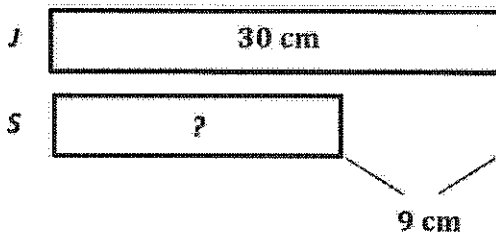


G2-M2-Lesson 10

Use the Read-Draw-Write (RDW) process to solve. Draw a tape diagram for each step.

Jesse's tower of blocks is 30 cm tall. Sarah's tower is 9 cm shorter than Jesse's tower. What is the total height of both towers?

Step 1: Find the height of Sarah's tower.



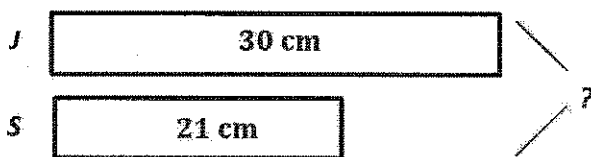
$$30 - 9 = 20 + 1 = 21$$

$$\begin{array}{r} 20 \quad 10 \\ 10 - 9 = 1 \\ 20 + 1 = 21 \end{array}$$

Sarah's tower is 21 cm.

I can draw a tape diagram to compare Jesse and Sarah's towers. I don't know how tall Sarah's tower is, so I can label it with a question mark. But, I know that Sarah's tower is shorter, so I can draw arms and label the difference with 9 cm. I can use subtraction and the take from ten strategy to find the missing part, so $30 - 9 = 21$.

Step 2: Find the total height of both towers.



$$30 + 21 = ?$$

$$30 + 21 = 51$$

The total height of both towers is 51 cm.

From Step 1, I know that Sarah's tower is 21 cm. Now, I can label Sarah's bar with 21 cm. I can add both parts together to find the whole. $30 \text{ cm} + 21 \text{ cm} = 51 \text{ cm}$.