

A boy wishes to divide the board in 28cm long into 3 pieces in the ratio of 1:2:4 find the length of each.

Solution:

Assume that the smallest part is x cm, if we have ratio 1:2:4 the length of other parts will be $2x$, and $4x$.

Total length will be $(x + 2x + 4x)$ and it equal 28 cm

$$(x + 2x + 4x) = 28$$

$$7x = 28$$

$$x = 4$$

The length of other parts will be 8 cm and 16 cm

Answer: **4 cm, 8 cm, 16 cm**