

## Conditions

the measure of one is four times the measure of the other? what is the answer for this question?

## Solution

When some object has a measure which is related to another object's measure, we say about proportion. Proportion give us a linear relationship between some parameters of some objects. For example, the measure of triangle sides is its length. So, if we have 1 side = 10 cm and the other side 40 cm, we can conclude, that the measure of the second side is four times the measure of first side, as  $40/10 = 4/1$ .

Generally, when we have some object and its measure  $x$ , and have another object with the related measure  $y$ , we can say, that  $x$  is  $k$  times the measure  $y$ , if:

$$x = k \cdot y$$