Unit 2

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Question: A dessert recipe requires for 3kgs of sugar for every 6 kgs of flour. If the recipe is 60kgs prepared, how much sugar is required?

Solution:

We have a recipe which includes 3 kg of sugar and 6 kg flour.

Recipe= 3+6

Recipe = 9 kg

Now the ratio of sugar in the recipe is 3 kg, and the total recipe is 9 kg

3:9

Or

1:3

Now we have to find the amount of sugar for 60 kg recipe.

X : 60

X is the amount of sugar which we have to find.

Now the equation will be

1 : 3 : : x : 60

So changing the ratio into division and proportion to equality, we will get,

1/3 = x /60

Now do cross multiplication

3 \* x = 1 \* 60

3x = 60

Divide both sides by 3 to find the value of x.

3x / 3 = 60 / 3

X = 20

So the amount of sugar in the recipe will be 20 kg.

Ratio and proportion are used in different businesses, to find and compare two quantities. For instance the number of men and women. Another example is if the quantity is the same of two situations and the prices are different, or the same prices but the quantities are different.