Concept : Ratio Word Problems (Unchanged total)

Kamal and Norman had sweets in the ratio of 5:7. After Kamal gave Norman 21 of his sweets, the ratio became 1:5. How many sweets did Kamal have at first?

1) Using the "Before-Change-After" table to help you organise your information, this is how the table will look like at first:

	Kamal	Norman	Total
Before	5u	7u	12u
Change	- 21 sweets	+ 21 sweets	
After	1u	5u	6u

2) Then we make the before & after total ratio to be the same by multiplying:

	Kamal	Norman	Total
Before	5u	7u	12u
Change	- 21 sweets	+ 21 sweets	
After	1u x 2 = 2u	5u x 2 = 10u	6u x 2 = 12u

After you've made the **total** of the before & after ratio the same, we can start solving the question.

At first, Norman had 7 units. But after he get 21 sweets from Kamal, he had 10 units. So, how many units represents the 21 sweets he got from Kamal? (Ans: 3 units represents the 21 sweets)

3 units \rightarrow 21 sweets 1 unit \rightarrow 21 ÷ 3 = 7 sweets 5 units \rightarrow 7 x 5 = 35 sweets

Ans: 35 sweets