SOLVE BY FORMING EQUATIONS 1

Solve the following word problems by solving equations.

Example:

1.   What number gives 234 when you multiply the number by 45 and then divide it by 20.

Answer: Let the number be N.

The number is multiplied by 45 and then divide it by 20.

So, the expression becomes: $\dfrac{(45*N)}{20}$

And then the equation becomes $\dfrac{(45*N)}{20}$ **= 234**

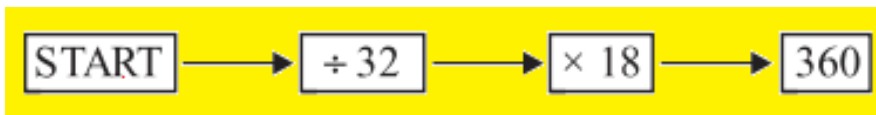Now let's solve the equation.
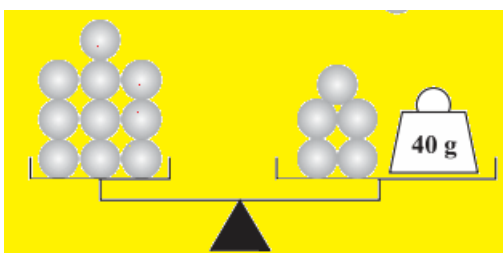
45*N = 234 * 20

45*N = 4680

N= 4680/45

So, N = 104

1.   String A is 25 cm long. It is 5/7 of string B. What is the total length of the strings?

2. Saira was told to multiply 126 by 32. Instead, she multiplied 126 by a number, and so the original answer becomes 1134 greater than her answer. Find the number?

3. Find the number in the start box?

START ⟶ ÷ 32 ⟶ × 18 ⟶ 360

4. Find the weight of 10 balls?

5. What must be added to 124978 to make it 1000000?

6. Siya has 5 more oranges than apples. She sold $\frac{2}{3}$ of the oranges and $\frac{1}{4}$ of the apples. How many fruits did she sell in all, if she had 16 apples in all?

7. John is 36 years old. His son is 8 years old. The age of John, his wife and their son add up to 77. Which equation could be used to determine how old is John's wife is, if N = John's wife's age?

8.   The product of a number and 712 is X. Adding 62 to X gives 7894. Find the number?

9.   I think of a decimal number. If I multiply it by 2, then add 1.5 and then divide it by 3, then I get 3.5. Find the number?

10.   The Length of a string is 75 cm. The length of another string is 20 cm more than double of first string. What is the total length of both the strings?

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