SOLVE BY FORMING EQUATIONS 2

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: $\frac{(45*N)}{20}$

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

Now let's solve the equation.

45*N = 234 * 20

45*N = 4680

N= 4680/45

So, N = 104

1. **What will be the number in the start box?**

| START | → | ÷ 16 | → | × 16 | → | 160 |

2. Ajay is $\frac{1}{4}$ m shorter than Vishi. If Ajay is $1\frac{3}{8}$ m tall then what is the height of Vishi?

3. Jacob who is 12 years old, is 3 times as old as his brother. How old will Jacob be when his brother's age doubles?
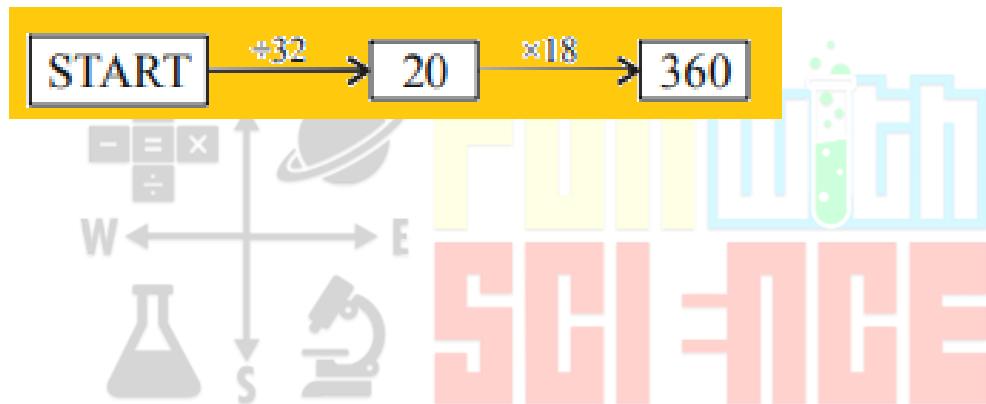
4. Find the number that should be placed in the box?

$$42 \times 45 \div 90 + \boxed{} = 117$$

5.

If $\triangle \times \triangle = 121$ and $\square \div \triangle = 5$

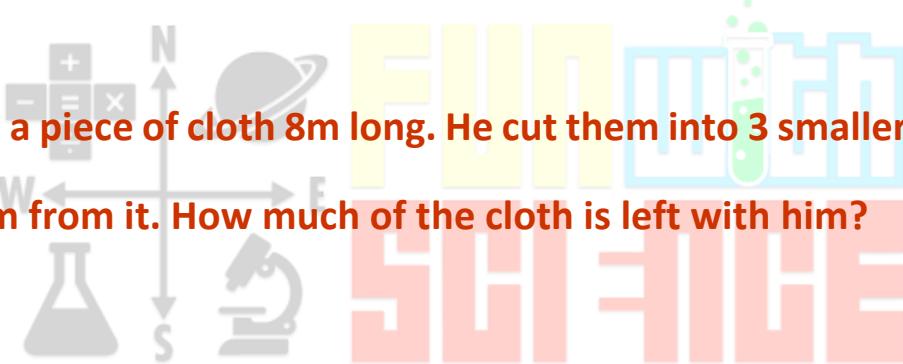Then, what is the value of $\triangle + \square$?

6.

START $\xrightarrow{\div 32}$ 20 $\xrightarrow{\times 18}$ 360

7. Find the missing number?

$$1461 \times 5 = 1400 \times 5 + \underline{\ ?\ } \times 5$$

8. Find the missing fraction?

$$\boxed{} - \frac{3}{21} = \frac{5}{21}$$

9. A tailor had a piece of cloth 8m long. He cut them into 3 smaller pieces each of length $\frac{3}{4}$m from it. How much of the cloth is left with him?

10. What number gives 452 when you multiply the number by 4 and then divide it by 16.