

Exc - 4.1

Q.4. Sol:

(i) If you take away 6 from 6 times  $y$  you get 60.

6 times  $y$  is  $6y$

now, subtract 6 from  $6y$

$$\Rightarrow 6y - 6$$

result is 60.

Hence, Equation is:

$$6y - 6 = 60$$

(ii) If you add 3 to one-third of  $z$ , you get 30.

$$\text{one-third of } z = \frac{z}{3}$$

now, add 3 to it

$$\Rightarrow \frac{z}{3} + 3$$

result is 30

Hence, Required equation is:

$$\frac{z}{3} + 3 = 30$$

Q.5. Statement of equation:

(i)  $p + 4 = 15$ .

The sum of numbers  $p$  and  $4$  is 15.

(ii)  $m - 7 = 3$

Taking away  $7$  from  $m$  gives 3.

(iii)  $\frac{3m}{5} = 6$

Three-fifth of a number  $m$  is 6.

(iv)  $4p - 2 = 18$

$2$  subtracted from four times a number  $p$  is  $18$ .

(v)  $\frac{p}{2} + 2 = 8$

Add  $2$  to half of a number  $p$  to get 8.

Q.6. Sol.

(i) Take  $m$  to be the number of Parmit's marble.

Five times  $m$  is  $5m$ .

$7$  more than five times  $m = \underline{5m + 7}$

A/q. Number of Jagan's marbles = 37

Therefore, Required equation is

$$\boxed{5m + 7 = 37}$$

(ii) Take y years to be the Laxmi's age.

Three times Laxmi's age = 3y

4 years older than her age = 3y + 4

A/q, Laxmi's father age = 49 years

that is equal to 3y + 4

Therefore, required equation is:

$$\boxed{3y + 4 = 49}$$

(iii) Base angle of an isosceles triangle =  $b^\circ$

So, its vertex angle =  $2b^\circ$  (A/q)

✓ Base angles are equal to each other in an isosceles triangle. and sum of all three angles in a triangle =  $180^\circ$

Therefore, Required equation is:

$$\boxed{b + b + 2b = 180^\circ} \text{ or } \boxed{4b = 180^\circ}$$

— The End. —