

Mathematics

(Chapter - 4) (Simple Equations) (Exercise 4.1) (Class - VII)

Question 1:

Complete the last column of the table:

S. No.	Equation	Value	Say, whether the Equation is satisfied. (Yes / No)
(i)	$x+3=0$	$x=3$	
(ii)	$x+3=0$	$x=0$	
(iii)	$x+3=0$	$x=-3$	
(iv)	$x-7=1$	$x=7$	
(v)	$x-7=1$	$x=8$	
(vi)	$5x=25$	$x=0$	
(vii)	$5x=25$	$x=5$	
(viii)	$5x=25$	$x=-5$	
(ix)	$\frac{m}{3}=2$	$m=-6$	
(x)	$\frac{m}{3}=2$	$m=0$	
(xi)	$\frac{m}{3}=2$	$m=6$	

Answer 1:

S. No.	Equation	Value	Say, whether the Equation is satisfied. (Yes / No)
(i)	$x+3=0$	$x=3$	No
(ii)	$x+3=0$	$x=0$	No
(iii)	$x+3=0$	$x=-3$	Yes
(iv)	$x-7=1$	$x=7$	No
(v)	$x-7=1$	$x=8$	Yes
(vi)	$5x=25$	$x=0$	No
(vii)	$5x=25$	$x=5$	Yes
(viii)	$5x=25$	$x=-5$	No
(ix)	$\frac{m}{3}=2$	$m=-6$	No
(x)	$\frac{m}{3}=2$	$m=0$	No
(xi)	$\frac{m}{3}=2$	$m=6$	Yes

Question 2:

Check whether the value given in the brackets is a solution to the given equation or not:

(a) $n+5=19(n=1)$

(b) $7n+5=19(n=-2)$

(c) $7n+5=19(n=2)$

(d) $4p-3=13(p=1)$

(e) $4p-3=13(p=-4)$

(f) $4p-3=13(p=0)$

Answer2:

(a) $n+5=19(n=1)$

Putting $n=1$ in L.H.S.,

$$1+5=6$$

\therefore L.H.S. \neq R.H.S.,

$\therefore n=1$ is not the solution of given equation.

(b) $7n+5=19(n=-2)$

Putting $n=-2$ in L.H.S.,

$$7(-2)+5=-14+5=-9$$

\therefore L.H.S. \neq R.H.S.,

$\therefore n=-2$ is not the solution of given equation.

(c) $7n+5=19(n=2)$

Putting $n=2$ in L.H.S.,

$$7(2)+5=14+5=19$$

\therefore L.H.S. = R.H.S.,

$\therefore n=2$ is the solution of given equation.

(d) $4p-3=13(p=1)$

Putting $p=1$ in L.H.S.,

$$4(1)-3=4-3=1$$

\therefore L.H.S. \neq R.H.S.,

$\therefore p=1$ is not the solution of given equation.

(e) $4p-3=13(p=-4)$

Putting $p=-4$ in L.H.S.,

$$4(-4)-3=-16-3=-19$$

\therefore L.H.S. \neq R.H.S.,

$\therefore p=-4$ is not the solution of given equation.

(f) $4p-3=13(p=0)$

Putting $p=0$ in L.H.S.,

$$4(0)-3=0-3=-3$$

\therefore L.H.S. \neq R.H.S.,

$\therefore p=0$ is not the solution of given equation.

Question 3:

Solve the following equations by trial and error method:

(i) $5p+2=17$

(ii) $3m-14=4$

Answer 3:

(i) $5p+2=17$

Putting $p = -3$ in L.H.S. $5(-3)+2 = -15+2 = -13$

$\therefore -13 \neq 17$ Therefore, $p = -3$ is not the solution.

Putting $p = -2$ in L.H.S. $5(-2)+2 = -10+2 = -8$

$\therefore -8 \neq 17$ Therefore, $p = -2$ is not the solution.

Putting $p = -1$ in L.H.S. $5(-1)+2 = -5+2 = -3$

$\therefore -3 \neq 17$ Therefore, $p = -1$ is not the solution.

Putting $p = 0$ in L.H.S. $5(0)+2 = 0+2 = 2$

$\therefore 2 \neq 17$ Therefore, $p = 0$ is not the solution.

Putting $p = 1$ in L.H.S. $5(1)+2 = 5+2 = 7$

$\therefore 7 \neq 17$ Therefore, $p = 1$ is not the solution.

Putting $p = 2$ in L.H.S. $5(2)+2 = 10+2 = 12$

$\therefore 12 \neq 17$ Therefore, $p = 2$ is not the solution.

Putting $p = 3$ in L.H.S. $5(3)+2 = 15+2 = 17$

$\therefore 17 = 17$ Therefore, $p = 3$ is the solution.

(ii) $3m-14=4$

Putting $m = -2$ in L.H.S. $3(-2)-14 = -6-14 = -20$

$\therefore -20 \neq 4$ Therefore, $m = -2$ is not the solution.

Putting $m = -1$ in L.H.S. $3(-1)-14 = -3-14 = -17$

$\therefore -17 \neq 4$ Therefore, $m = -1$ is not the solution.

Putting $m = 0$ in L.H.S. $3(0)-14 = 0-14 = -14$

$\therefore -14 \neq 4$ Therefore, $m = 0$ is not the solution.

Putting $m = 1$ in L.H.S. $3(1)-14 = 3-14 = -11$

$\therefore -11 \neq 4$ Therefore, $m = 1$ is not the solution.

Putting $m = 2$ in L.H.S. $3(2)-14 = 6-14 = -8$

$\therefore -8 \neq 4$ Therefore, $m = 2$ is not the solution.

Putting $m = 3$ in L.H.S. $3(3)-14 = 9-14 = -5$

$\therefore -5 \neq 4$ Therefore, $m = 3$ is not the solution.

Putting $m = 4$ in L.H.S. $3(4)-14 = 12-14 = -2$

$\therefore -2 \neq 4$ Therefore, $m = 4$ is not the solution.

Putting $m = 5$ in L.H.S. $3(5)-14 = 15-14 = 1$

$\therefore 1 \neq 4$ Therefore, $m = 5$ is not the solution.

Putting $m = 6$ in L.H.S. $3(6)-14 = 18-14 = 4$

$\therefore 4 = 4$ Therefore, $m = 6$ is the solution.

Question 4:

Write equations for the following statements:

- (i) The sum of numbers x and 4 is 9.
- (ii) 2 subtracted from y is 8.
- (iii) Ten times a is 70.
- (iv) The number b divided by 5 gives 6.
- (v) Three-fourth of t is 15.
- (vi) Seven times m plus 7 gets you 77.
- (vii) One-fourth of a number x minus 4 gives 4.
- (viii) If you take away 6 from 6 times y , you get 60.
- (ix) If you add 3 to one-third of z , you get 30.

Answer 4:

- | | | | |
|-------|--------------------|--------|-----------------|
| (i) | $x+4=9$ | (ii) | $y-2=8$ |
| (iii) | $10a=70$ | (iv) | $\frac{b}{5}=6$ |
| (v) | $\frac{3}{4}t=15$ | (vi) | $7m+7=77$ |
| (vii) | $\frac{x}{4}-4=4$ | (viii) | $6y-6=60$ |
| (ix) | $\frac{z}{3}+3=30$ | | |

Question 5:

Write the following equations in statement form:

- (i) $p+4=15$
- (ii) $m-7=3$
- (iii) $2m=7$
- (iv) $\frac{m}{5}=3$
- (v) $\frac{3m}{5}=6$
- (vi) $3p+4=25$
- (vii) $4p-2=18$
- (viii) $\frac{p}{2}+2=8$

Answer 5:

- (i) The sum of numbers p and 4 is 15.
- (ii) 7 subtracted from m is 3.
- (iii) Two times m is 7.
- (iv) The number m is divided by 5 gives 3.
- (v) Three-fifth of the number m is 6.
- (vi) Three times p plus 4 gets 25.
- (vii) If you take away 2 from 4 times p , you get 18.
- (viii) If you added 2 to half is p , you get 8.

Question 6:

Set up an equation in the following cases:

- (i) Irfan says that he has 7 marbles more than five times the marbles Parmit has. Irfan has 37 marbles. (Take m to be the number of Parmit's marbles.)
- (ii) Laxmi's father is 49 years old. He is 4 years older than three times Laxmi's age. (Take Laxmi's age to be y years.)
- (iii) The teacher tells the class that the highest marks obtained by a student in her class are twice the lowest marks plus 7. The highest score is 87. (Take the lowest score to be l .)
- (iv) In an isosceles triangle, the vertex angle is twice either base angle. (Let the base angle be b in degrees. Remember that the sum of angles of a triangle is 180° .)

Answer 6:

- (i) Let m be the number of Parmit's marbles.

$$\therefore 5m + 7 = 37$$

- (ii) Let the age of Laxmi be y years.

$$\therefore 3y + 4 = 49$$

- (iii) Let the lowest score be l .

$$\therefore 2l + 7 = 87$$

- (iv) Let the base angle of the isosceles triangle be b , so vertex angle = $2b$.

$$\therefore 2b + b + b = 180^\circ$$

$$\Rightarrow 4b = 180^\circ \quad [\text{Angle sum property of a } \Delta]$$

Mathematics

(Chapter - 4) (Simple Equations) (Exercise 4.2) (Class - VII)

Question 1:

Give first the step you will use to separate the variable and then solve the equations:

(a) $x-1=0$

(b) $x+1=0$

(c) $x-1=5$

(d) $x+6=2$

(e) $y-4=-7$

(f) $y-4=4$

(g) $y+4=4$

(h) $y+4=-4$

Answer 1:

(a) $x-1=0$

$$\begin{aligned}\Rightarrow x-1+1 &= 0+1 && \text{[Adding 1 both sides]} \\ \Rightarrow x &= 1\end{aligned}$$

(b) $x+1=0$

$$\begin{aligned}\Rightarrow x+1-1 &= 0-1 && \text{[Subtracting 1 both sides]} \\ \Rightarrow x &= -1\end{aligned}$$

(c) $x-1=5$

$$\begin{aligned}\Rightarrow x-1+1 &= 5+1 && \text{[Adding 1 both sides]} \\ \Rightarrow x &= 6\end{aligned}$$

(d) $x+6=2$

$$\begin{aligned}\Rightarrow x+6-6 &= 2-6 && \text{[Subtracting 6 both sides]} \\ \Rightarrow x &= -4\end{aligned}$$

(e) $y-4=-7$

$$\begin{aligned}\Rightarrow y-4+4 &= -7+4 && \text{[Adding 4 both sides]} \\ \Rightarrow y &= -3\end{aligned}$$

(f) $y-4=4$

$$\begin{aligned}\Rightarrow y-4+4 &= 4+4 && \text{[Adding 4 both sides]} \\ \Rightarrow y &= 8\end{aligned}$$

(g) $y+4=4$

$$\begin{aligned}\Rightarrow y+4-4 &= 4-4 && \text{[Subtracting 4 both sides]} \\ \Rightarrow y &= 0\end{aligned}$$

(h) $y+4=-4$

$$\begin{aligned}\Rightarrow y+4-4 &= -4-4 && \text{[Subtracting 4 both sides]} \\ \Rightarrow y &= -8\end{aligned}$$

Question 2:

Give first the step you will use to separate the variable and then solve the equations

(a) $3l = 42$

(b) $\frac{b}{2} = 6$

(c) $\frac{p}{7} = 4$

(d) $4x = 25$

(e) $8y = 36$

(f) $\frac{z}{3} = \frac{5}{4}$

(g) $\frac{a}{5} = \frac{7}{15}$

(h) $20t = -10$

Answer 2:

(a) $3l = 42$

$$\Rightarrow \frac{3l}{3} = \frac{42}{3}$$

[Dividing both sides by 3]

$$\Rightarrow l = 14$$

(b) $\frac{b}{2} = 6$

$$\Rightarrow \frac{b}{2} \times 2 = 6 \times 2$$

[Multiplying both sides by 2]

$$\Rightarrow b = 12$$

(c) $\frac{p}{7} = 4$

$$\Rightarrow \frac{p}{7} \times 7 = 4 \times 7$$

[Multiplying both sides by 7]

$$\Rightarrow p = 28$$

(d) $4x = 25$

$$\Rightarrow \frac{4x}{4} = \frac{25}{4}$$

[Dividing both sides by 4]

$$\Rightarrow x = \frac{25}{4}$$

(e) $8y = 36$

$$\Rightarrow \frac{8y}{8} = \frac{36}{8}$$

[Dividing both sides by 8]

$$\Rightarrow y = \frac{9}{2}$$

(f) $\frac{z}{3} = \frac{5}{4}$

$$\Rightarrow \frac{z}{3} \times 3 = \frac{5}{4} \times 3$$

[Multiplying both sides by 3]

$$\Rightarrow z = \frac{15}{4}$$

$$(g) \quad \frac{a}{5} = \frac{7}{15}$$

$$\Rightarrow \frac{a}{5} \times 5 = \frac{7}{15} \times 5$$

[Multiplying both sides by 5]

$$\Rightarrow a = \frac{7}{3}$$

$$(h) \quad 20t = -10$$

$$\Rightarrow \frac{20t}{20} = \frac{-10}{20}$$

[Dividing both sides by 20]

$$\Rightarrow t = \frac{-1}{2}$$

Question 3:

Give first the step you will use to separate the variable and then solve the equations

$$(a) \quad 3n - 2 = 46$$

$$(b) \quad 5m + 7 = 17$$

$$(c) \quad \frac{20p}{3} = 40$$

$$(d) \quad \frac{3p}{10} = 6$$

Answer 3:

$$(a) \quad 3n - 2 = 46$$

$$\text{Step I:} \quad 3n - 2 + 2 = 46 + 2$$

$$\Rightarrow 3n = 48$$

[Adding 2 both sides]

$$\text{Step II:} \quad \frac{3n}{3} = \frac{48}{3}$$

$$\Rightarrow n = 16$$

[Dividing both sides by 3]

$$(b) \quad 5m + 7 = 17$$

$$\text{Step I:} \quad 5m + 7 - 7 = 17 - 7$$

$$\Rightarrow 5m = 10$$

[Subtracting 7 both sides]

$$\text{Step II:} \quad \frac{5m}{5} = \frac{10}{5}$$

$$\Rightarrow m = 2$$

[Dividing both sides by 5]

$$(c) \quad \frac{20p}{3} = 40$$

$$\text{Step I:} \quad \frac{20p}{3} \times 3 = 40 \times 3$$

$$\Rightarrow 20p = 120$$

[Multiplying both sides by 3]

$$\text{Step II:} \quad \frac{20p}{20} = \frac{120}{20}$$

$$\Rightarrow p = 6$$

[Dividing both sides by 20]

(d) $\frac{3p}{10} = 6$

Step I: $\frac{3p}{10} \times 10 = 6 \times 10$

$\Rightarrow 3p = 60$

[Multiplying both sides by 10]

Step II: $\frac{3p}{3} = \frac{60}{3}$

$\Rightarrow p = 20$

[Dividing both sides by 3]

Question 4:

Solve the following equation:

(a) $10p = 100$

(b) $10p + 10 = 100$

(c) $\frac{p}{4} = 5$

(d) $\frac{-p}{3} = 5$

(e) $\frac{3p}{4} = 6$

(f) $3s = -9$

(g) $3s + 12 = 0$

(h) $3s = 0$

(i) $2q = 6$

(j) $2q - 6 = 0$

(k) $2q + 6 = 0$

(l) $2q + 6 = 12$

Answer 4:

(a) $10p = 100$

$\Rightarrow \frac{10p}{10} = \frac{100}{10}$

[Dividing both sides by 10]

$\Rightarrow p = 10$

(b) $10p + 10 = 100$

$\Rightarrow 10p + 10 - 10 = 100 - 10$

[Subtracting both sides 10]

$\Rightarrow 10p = 90$

$\Rightarrow \frac{10p}{10} = \frac{90}{10}$

[Dividing both sides by 10]

$\Rightarrow p = 9$

(c) $\frac{p}{4} = 5$

$\Rightarrow \frac{p}{4} \times 4 = 5 \times 4$

[Multiplying both sides by 4]

$\Rightarrow p = 20$

(d) $\frac{-p}{3} = 5$

$$\Rightarrow \frac{-p}{3} \times (-3) = 5 \times (-3)$$

[Multiplying both sides by - 3]

$$\Rightarrow p = -15$$

(e) $\frac{3p}{4} = 6$

$$\Rightarrow \frac{3p}{4} \times 4 = 6 \times 4$$

[Multiplying both sides by 4]

$$\Rightarrow 3p = 24$$

$$\Rightarrow \frac{3p}{3} = \frac{24}{3}$$

[Dividing both sides by 3]

$$\Rightarrow p = 8$$

(f) $3s = -9$

$$\Rightarrow \frac{3s}{3} = \frac{-9}{3}$$

[Dividing both sides by 3]

$$\Rightarrow s = -3$$

(g) $3s + 12 = 0$

$$\Rightarrow 3s + 12 - 12 = 0 - 12$$

[Subtracting both sides 10]

$$\Rightarrow 3s = -12$$

$$\Rightarrow \frac{3s}{3} = \frac{-12}{3}$$

[Dividing both sides by 3]

$$\Rightarrow s = -4$$

(h) $3s = 0$

$$\Rightarrow \frac{3s}{3} = \frac{0}{3}$$

[Dividing both sides by 3]

$$\Rightarrow s = 0$$

(i) $2q = 6$

$$\Rightarrow \frac{2q}{2} = \frac{6}{2}$$

[Dividing both sides by 2]

$$\Rightarrow q = 3$$

(j) $2q - 6 = 0$

$$\Rightarrow 2q - 6 + 6 = 0 + 6$$

[Adding both sides 6]

$$\Rightarrow 2q = 6$$

$$\Rightarrow \frac{2q}{2} = \frac{6}{2}$$

[Dividing both sides by 2]

$$\Rightarrow q = 3$$

(k) $2q + 6 = 0$

$$\Rightarrow 2q + 6 - 6 = 0 - 6$$

[Subtracting both sides 6]

$$\Rightarrow 2q = -6$$

$$\Rightarrow \frac{2q}{2} = \frac{-6}{2}$$

[Dividing both sides by 2]

$$\Rightarrow q = -3$$

(I) $2q+6=12$

$$\Rightarrow 2q+6-6=12-6$$

[Subtracting both sides 6]

$$\Rightarrow 2q=6$$

$$\Rightarrow \frac{2q}{2}=\frac{6}{2}$$

[Dividing both sides by 2]

$$\Rightarrow q=3$$

Mathematics

(Chapter - 4) (Simple Equations) (Exercise 4.3) (Class - VII)

Question 1:

Set up equations and solve them to find the unknown numbers in the following cases:

- (a) Add 4 to eight times a number; you get 60.
- (b) One-fifth of a number minus 4 gives 3.
- (c) If I take three-fourth of a number and add 3 to it, I get 21.
- (d) When I subtracted 11 from twice a number, the result was 15.
- (e) Munna subtracts thrice the number of notebooks he has from 50, he finds the result to be 8.
- (f) Ibenhal thinks of a number. If she adds 19 to it divides the sum by 5, she will get 8.
- (g) Answer thinks of a number. If he takes away 7 from $\frac{5}{2}$ of the number, the result is $\frac{11}{2}$.

Answer 1:

- (a) Let the number be x

According to the question, $8x + 4 = 60$

$$\Rightarrow 8x = 60 - 4$$
$$\Rightarrow 8x = 56$$
$$\Rightarrow x = \frac{56}{8}$$
$$\Rightarrow x = 7$$

- (b) Let the number be y

According to the question, $\frac{y}{5} - 4 = 3$

$$\Rightarrow \frac{y}{5} = 3 + 4$$
$$\Rightarrow \frac{y}{5} = 7$$
$$\Rightarrow y = 7 \times 5$$
$$\Rightarrow y = 35$$

- (c) Let the number be z

According to the question, $\frac{3}{4}z + 3 = 21$

$$\Rightarrow \frac{3}{4}z = 21 - 3$$
$$\Rightarrow \frac{3}{4}z = 18$$
$$\Rightarrow 3z = 18 \times 4$$
$$\Rightarrow 3z = 72$$
$$\Rightarrow z = \frac{72}{3}$$
$$\Rightarrow z = 24$$

- (d) Let the number be x

According to the question, $2x - 11 = 15$

$$\Rightarrow 2x = 15 + 11$$
$$\Rightarrow 2x = 26$$
$$\Rightarrow x = \frac{26}{2}$$
$$\Rightarrow x = 13$$

(e) Let the number be m

According to the question, $50 - 3m = 8$

$$\Rightarrow -3m = 8 - 50$$

$$\Rightarrow -3m = -42$$

$$\Rightarrow m = \frac{-42}{-3}$$

$$\Rightarrow m = 14$$

(f) Let the number be n

According to the question, $\frac{n+19}{5} = 8$

$$\Rightarrow n + 19 = 8 \times 5$$

$$\Rightarrow n + 19 = 40$$

$$\Rightarrow n = 40 - 19$$

$$\Rightarrow n = 21$$

(g) Let the number be x

According to the question, $\frac{5}{2}x - 7 = \frac{11}{2}$

$$\Rightarrow \frac{5}{2}x = \frac{11}{2} + 7$$

$$\Rightarrow \frac{5}{2}x = \frac{11+14}{2}$$

$$\Rightarrow \frac{5}{2}x = \frac{25}{2}$$

$$\Rightarrow 5x = \frac{25 \times 2}{2}$$

$$\Rightarrow 5x = 25$$

$$\Rightarrow x = \frac{25}{5}$$

$$\Rightarrow x = 5$$

Question 2:

Solve the following:

- (a)** The teacher tells the class that the highest marks obtained by a student in her class are twice the lowest marks plus 7. The highest score is 87. What is the lowest score?
- (b)** In an isosceles triangle, the base angles are equal. The vertex angle is 40° . What are the base angles of the triangle? (Remember, the sum of three angles of a triangle is 180° .)
- (c)** Sachin scored twice as many runs as Rahul. Together, their runs fell two short of a double century. How many runs did each one score?

Answer 2:

(a) Let the lowest marks be y .

According to the question, $2y + 7 = 87$

$$\Rightarrow 2y = 87 - 7$$

$$\Rightarrow 2y = 80$$

$$\Rightarrow y = \frac{80}{2}$$

$$\Rightarrow y = 40$$

Thus, the lowest score is 40.

(b) Let the base angle of the triangle be b .

Given, $a = 40^\circ, b = c$

Since, $a + b + c = 180^\circ$ [Angle sum property of a triangle]

$$\Rightarrow 40^\circ + b + b = 180^\circ$$

$$\Rightarrow 40^\circ + 2b = 180^\circ$$

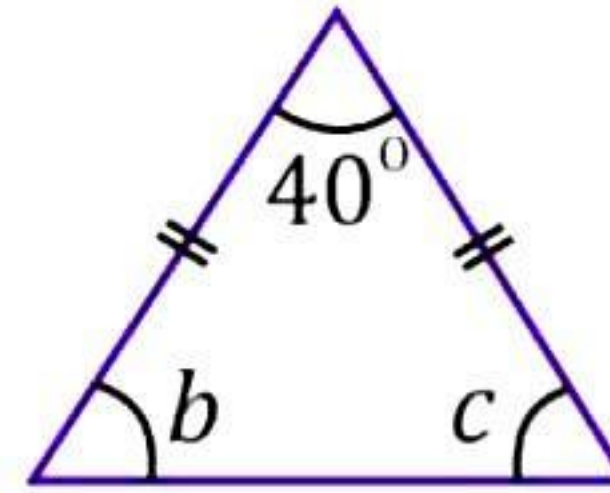
$$\Rightarrow 2b = 180^\circ - 40^\circ$$

$$\Rightarrow 2b = 140^\circ$$

$$\Rightarrow b = \frac{140^\circ}{2}$$

$$\Rightarrow b = 70^\circ$$

Thus, the base angles of the isosceles triangle are 70° each.



(c) Let the score of Rahul be x runs and Sachin's score is $2x$.

According to the question, $x + 2x = 198$

$$\Rightarrow 3x = 198$$

$$\Rightarrow x = \frac{198}{3}$$

$$\Rightarrow x = 66$$

Thus, Rahul's score = 66 runs

And Sachin's score = $2 \times 66 = 132$ runs.

Question 3:

Solve the following:

- (i)** Irfan says that he has 7 marbles more than five times the marbles Parmit has. Irfan has 37 marbles. How many marbles does Parmit have?
- (ii)** Laxmi's father is 49 years old. He is 4 years older than three times Laxmi's age. What is Laxmi's age?
- (iii)** People of Sundargram planted trees in the village garden. Some of the trees were fruit trees. The number of non-fruit trees were two more than three times the number of fruit trees. What was the number of fruit trees planted if the number of non-fruit trees planted was 77?

Answer 3:

(i) Let the number of marbles Parmit has be m .

According to the question, $5m + 7 = 37$

$$\Rightarrow 5m = 37 - 7$$

$$\Rightarrow 5m = 30$$

$$\Rightarrow m = \frac{30}{5}$$

$$\Rightarrow m = 6$$

Thus, Parmit has 6 marbles.

(ii) Let the age of Laxmi be y years.

Then her father's age = $(3y + 4)$ years

According to question, $3y + 4 = 49$

$$\Rightarrow 3y = 49 - 4$$

$$\Rightarrow 3y = 45$$

$$\Rightarrow y = \frac{45}{3}$$

$$\Rightarrow y = 15$$

Thus, the age of Laxmi is 15 years.

(iii) Let the number of fruit trees be t .

Then the number of non-fruits tree = $3t + 2$

According to the question, $3t + 2 = 77$

$$\Rightarrow 3t = 75$$

$$\Rightarrow t = \frac{75}{3}$$

$$\Rightarrow t = 25$$

Thus, the number of fruit trees are 25.

Question 4:

Solve the following riddle:

I am a number,

Tell my identity!

Take me seven times over,

And add a fifty!

To reach a triple century,

You still need forty!

Answer 4:

Let the number be n .

According to the question,

$$7n + 50 + 40 = 300$$

$$\Rightarrow 7n + 90 = 300$$

$$\Rightarrow 7n = 300 - 90$$

$$\Rightarrow 7n = 210$$

$$\Rightarrow n = \frac{210}{7}$$

$$\Rightarrow n = 30$$

Thus, the required number is 30.