

EMMANUEL MISSION SR SEC SCHOOL, BEAWAR
ONLINE CLASSES
WEEK – 12 (27.07.2020)
CLASS – VIII

English: <https://youtu.be/EwHkQGZsbUc>

Hindi: <https://youtu.be/OzcPT5wZ8uc>

Mathematics: <https://youtu.be/JNx1QOSexQ>

Mathematics: Kindly see below

Mathematics: Kindly see below

Mathematics: Kindly see below

General Science: <https://youtu.be/JIPLYHUXGbI>

Social Studies: Kindly see below

Sanskrit: Kindly see below

Computer Science: Kindly see below

General Knowledge: Kindly see below

Moral Science: Kindly see below

Physical Education: <https://youtu.be/44kRQnasUiw>

Music (Guitar): <https://youtu.be/mrF5H9t3XOA>

Music (Keyboard): <https://youtu.be/KGpxUyBOZbY>

Health & Sanitation: https://youtu.be/n7JNDuf_ADg

Art Education: <https://youtu.be/yO5WkXGCglo>

EMMANUEL MISSION SR SEC SCHOOL, BEAWAR
MATHEMATICS
CLASS – VIII

Chapter – 2 : Linear Equations in One Variable

(Ex. 2.1) Solutions

Solve the following questions.

1. $x - 2 = 7$

Ans. $x - 2 = 7$

$$\Rightarrow x - 2 + 2 = 7 + 2 \quad [\text{Adding 2 to both sides}]$$

$$\Rightarrow x = 9$$

2. $y + 3 = 10$

Ans. $y + 3 = 10$

$$\Rightarrow y + 3 - 3 = 10 - 3 \quad [\text{Subtracting 3 from both sides}]$$

$$\Rightarrow y = 7$$

3. $6 = z + 2$

Ans. $6 = z + 2$

$$\Rightarrow 6 - 2 = z + 2 - 2 \quad [\text{Subtracting 2 from both sides}]$$

$$\Rightarrow 4 = z$$

$$\Rightarrow z = 4$$

4. $\frac{3}{7} + x = \frac{17}{7}$

Ans. $\frac{3}{7} + x = \frac{17}{7}$

$$\Rightarrow x + \frac{3}{7} - \frac{3}{7} = \frac{17}{7} - \frac{3}{7} \quad \text{[Subtracting } \frac{3}{7} \text{ from both sides]}$$

$$\Rightarrow x = \frac{17-3}{7}$$

$$\Rightarrow x = \frac{14}{7}$$

$$\Rightarrow x = 2$$

5. $6x = 12$

Ans. $6x = 12$

$$\Rightarrow \frac{x}{6} = \frac{12}{6} \quad \text{[Dividing both sides by 6]}$$

$$\Rightarrow x = 2$$

6. $\frac{t}{5} = 10$

Ans. $\frac{t}{5} = 10$

$$\Rightarrow \frac{t}{5} \times 5 = 10 \times 5 \quad \text{[Multiplying both sides by 5]}$$

$$\Rightarrow t = 50$$

7. $\frac{2x}{3} = 18$

Ans. $\frac{2x}{3} = 18$

$$\Rightarrow \frac{2x}{3} \times 3 = 18 \times 3 \quad [\text{Multiplying both sides by 3}]$$

$$\Rightarrow 2x = 18 \times 3$$

$$\Rightarrow \frac{2x}{2} = \frac{18 \times 3}{2} \quad [\text{Dividing both sides by 2}]$$

$$\Rightarrow x = 27$$

$$8. \quad 1.6 = \frac{y}{1.5}$$

$$\text{Ans.} \quad 1.6 = \frac{y}{1.5}$$

$$\Rightarrow 1.6 \times 1.5 = \frac{y}{1.5} \times 1.5 \quad [\text{Multiplying both sides by 1.5}]$$

$$\Rightarrow 2.40 = y$$

$$\Rightarrow y = 2.40$$

$$9. \quad 7x - 9 = 16$$

$$\text{Ans.} \quad 7x - 9 = 16$$

$$\Rightarrow 7x - 9 + 9 = 16 + 9 \quad [\text{Adding 9 to both sides}]$$

$$\Rightarrow 7x = 25$$

$$\Rightarrow \frac{7x}{7} = \frac{25}{7} \quad [\text{Dividing both sides by 7}]$$

$$\Rightarrow x = \frac{25}{7}$$

$$10. \quad 14y - 8 = 13$$

$$\text{Ans.} \quad 14y - 8 = 13$$

$$\Rightarrow 14y - 8 + 8 = 13 + 8 \quad [\text{Adding 8 to both sides}]$$

$$\Rightarrow 14y = 21$$

$$\Rightarrow \frac{14y}{14} = \frac{21}{14} \quad [\text{Dividing both sides by 14}]$$

$$\Rightarrow y = \frac{3}{2}$$

11. $17 + 6p = 9$

Ans. $17 + 6p = 9$

$$\Rightarrow 17 + 6p - 17 = 9 - 17 \quad [\text{Subtracting 17 from both sides}]$$

$$\Rightarrow 6p = -8$$

$$\Rightarrow \frac{6p}{6} = \frac{-8}{6} \quad [\text{Dividing both sides by 6}]$$

$$\Rightarrow p = \frac{-4}{3}$$

12. $\frac{x}{3} + 1 = \frac{7}{15}$

Ans. $\frac{x}{3} + 1 = \frac{7}{15}$

$$\Rightarrow \frac{x}{3} + 1 - 1 = \frac{7}{15} - 1 \quad [\text{Subtracting 1 from both sides}]$$

$$\Rightarrow \frac{x}{3} = \frac{7 - 15}{15}$$

$$\Rightarrow \frac{x}{3} = \frac{-8}{15}$$

$$\Rightarrow \frac{x}{3} \times 3 = \frac{-8}{15} \times 3 \quad [\text{Multiplying both sides by 3}]$$

$$\Rightarrow x = \frac{-8}{5}$$

EMMANUEL MISSION SR SEC SCHOOL, BEAWAR
MATHEMATICS
CLASS – VIII

Chapter – 2 : Linear Equations in One Variable

(Ex. 2.2) Solutions

1. If you subtract $\frac{1}{2}$ from a number and multiply the result by $\frac{1}{2}$, you get $\frac{1}{8}$. What is the number?

Ans. Let the number be x .

According to the question,

$$\frac{1}{2}\left(x - \frac{1}{2}\right) = \frac{1}{8}$$

$$\Rightarrow 2 \times \frac{1}{2}\left(x - \frac{1}{2}\right) = \frac{1}{8} \times 2 \quad [\text{Multiplying both sides by 2}]$$

$$\Rightarrow x - \frac{1}{2} = \frac{1}{4}$$

$$\Rightarrow x - \frac{1}{2} + \frac{1}{2} = \frac{1}{4} + \frac{1}{2} \quad [\text{Adding } \frac{1}{2} \text{ to both sides}]$$

$$\Rightarrow x = \frac{1+2}{4}$$

$$\Rightarrow x = \frac{3}{4}$$

Hence, the required number is $\frac{3}{4}$.

2. The perimeter of a rectangular swimming pool is 154 m. Its length is 2 m more than twice its breadth. What are the length and breadth?

Ans. Let the breadth of the pool be x m.

Then, the length of the pool = $(2x+2)$ m

$$\text{Perimeter} = 2(l+b)$$

$$\Rightarrow 154 = 2(2x+2+x)$$

$$\Rightarrow \frac{154}{2} = \frac{2(2x+2+x)}{2} \quad [\text{Dividing both sides by 2}]$$

$$\Rightarrow 77 = 3x+2$$

$$\Rightarrow 77-2 = 3x+2-2 \quad [\text{Subtracting 2 from both sides}]$$

$$\Rightarrow 75 = 3x$$

$$\Rightarrow \frac{75}{3} = \frac{3x}{3} \quad [\text{Dividing both sides by 3}]$$

$$\Rightarrow 25 = x$$

$$\Rightarrow x = 25 \text{ m}$$

$$\text{Hence, length of the pool} = 2x+2$$

$$2 \times 25 + 2 = 50 + 2 = 52 \text{ m}$$

$$\text{And, breadth of the pool} = 25 \text{ m.}$$

3. The base of an isosceles triangle is $\frac{4}{3}$ cm. The perimeter of the triangle is $4\frac{2}{15}$ cm. What is the length of either of the remaining equal sides?

Ans. Let each of equal sides of an isosceles triangle be x cm.

Perimeter of a triangle = Sum of all three sides

$$\Rightarrow 4\frac{2}{15} = \frac{4}{3} + x + x$$

$$\Rightarrow \frac{62}{15} = \frac{4}{3} + 2x$$

$$\Rightarrow \frac{62}{15} - \frac{4}{3} = \frac{4}{3} - \frac{4}{3} + 2x \quad [\text{Subtracting } \frac{4}{3} \text{ from both the sides}]$$

$$\Rightarrow \frac{62-20}{15} = 2x$$

$$\Rightarrow \frac{42}{15} = 2x$$

$$\Rightarrow \frac{42}{15 \times 2} = \frac{2x}{2} \quad [\text{Dividing both sides by 2}]$$

$$\Rightarrow \frac{7}{5} = x$$

$$\Rightarrow x = 1\frac{2}{5} \text{ cm}$$

Hence, each equal side of an isosceles triangle is $1\frac{2}{5}$ cm.

4. Sum of two numbers is 95. If one exceeds the other by 15, find the numbers.

Ans. Sum of two number = 95

Let the first number be x ,

then another number be $x+15$.

According to the question,

$$x + x + 15 = 95$$

$$\Rightarrow 2x + 15 = 95$$

$$\Rightarrow 2x + 15 - 15 = 95 - 15 \quad [\text{Subtracting 15 from both sides}]$$

$$\Rightarrow 2x = 80$$

$$\Rightarrow \frac{2x}{2} = \frac{80}{2} \quad [\text{Dividing both sides by 2}]$$

$$\Rightarrow x = 40$$

Hence, the first number = 40

And another number = $40 + 15 = 55$.

5. Two numbers are in the ratio 5 : 3. If they differ by 18, what are the numbers?

Ans. Let the two numbers be $5x$ and $3x$

According to question, $5x - 3x = 18$

$$\Rightarrow 2x = 18$$

$$\Rightarrow \frac{2x}{2} = \frac{18}{2} \quad [\text{Dividing both sides by 2}]$$

$$\Rightarrow x = 9$$

Hence, first number = $5 \times 9 = 45$ and second number = $3 \times 9 = 27$.

6. Three consecutive integers add up to 51. What are these integers?

Ans. Let the three consecutive integers be $x, x+1$ and $x+2$.

According to the question,

$$\Rightarrow x + x + 1 + x + 2 = 51$$

$$\Rightarrow 3x + 3 = 51$$

$$\Rightarrow 3x + 3 - 3 = 51 - 3 \quad [\text{Subtracting 3 from both sides}]$$

$$\Rightarrow 3x = 48$$

$$\Rightarrow \frac{3x}{3} = \frac{48}{3} \quad [\text{Dividing both sides by 3}]$$

$$\Rightarrow x = 16$$

Hence, first integer = 16,

second integer = $16 + 1 = 17$ and

third integer = $16 + 2 = 18$.

7. The sum of three consecutive multiples of 8 is 888. Find the multiples.

Ans. Let the three consecutive multiples of 8 be $x, x+8$ and $x+16$.

According to question,

$$\Rightarrow x + x + 8 + x + 16 = 888$$

$$\Rightarrow 3x + 24 = 888$$

$$\Rightarrow 3x + 24 - 24 = 888 - 24 \text{ [Subtracting 24 from both sides]}$$

$$\Rightarrow 3x = 864$$

$$\Rightarrow \frac{3x}{3} = \frac{864}{3} \text{ [Dividing both sides by 3]}$$

$$\Rightarrow x = 288$$

Hence, first multiple of 8 = 288,

second multiple of 8 = $288 + 8 = 296$ and

third multiple of 8 = $288 + 16 = 304$.

8. Three consecutive integers are such that when they are taken in increasing order and multiplied by 2, 3 and 4 respectively, they add up to 74. Find these numbers.

Ans. Let the three consecutive integers be $x, x+1$ and $x+2$.

According to the question,

$$\Rightarrow 2x + 3(x+1) + 4(x+2) = 74$$

$$\Rightarrow 2x + 3x + 3 + 4x + 8 = 74$$

$$\Rightarrow 9x + 11 = 74$$

$$\Rightarrow 9x + 11 - 11 = 74 - 11 \text{ [Subtracting 11 from both sides]}$$

$$\Rightarrow 9x = 63$$

$$\Rightarrow \frac{9x}{9} = \frac{63}{9} \text{ [Dividing both sides by 9]}$$

$$\Rightarrow x = 7$$

Hence first integer = 7, second integer

$$= 7 + 1 = 8 \text{ and third integer} = 7 + 2 = 9.$$

9. The ages of Rahul and Haroon are in the ratio 5 : 7. Four years later the sum of their ages will be 56 years. What are their present ages?

Ans. Let the present ages of Rahul and Haroon be $5x$ years and $7x$ years respectively.

According to condition,

$$\Rightarrow (5x + 4) + (7x + 4) = 56$$

$$\Rightarrow 12x + 8 = 56$$

$$\Rightarrow 12x + 8 - 8 = 56 - 8 \text{ [Subtracting 8 from both sides]}$$

$$\Rightarrow 12x = 48$$

$$\Rightarrow \frac{12x}{12} = \frac{48}{12} \text{ [Dividing both sides by 12]}$$

$$\Rightarrow x = 4$$

Hence, present age of Rahul = $5 \times 4 = 20$ years and

present age of Haroon = $7 \times 4 = 28$ years.

10. The number of boys and girls in a class are in the ratio 7 : 5. The number of boys is 8 more than the number of girls. What is the total class strength?

Ans. Let the number of girls be x .

Then, the number of boys = $x + 8$.

According to the question,

$$\Rightarrow \frac{x + 8}{x} = \frac{7}{5}$$

$$\Rightarrow 5(x + 8) = 7x$$

$$\Rightarrow 5x + 40 = 7x$$

$$\Rightarrow 5x - 7x = -40$$

[Transposing $7x$ to L.H.S. and 40 to R.H.S.]

$$\Rightarrow -2x = -40 \Rightarrow \frac{-2x}{-2} = \frac{-40}{-2} \quad [\text{Dividing both sides by } -2]$$

$$\Rightarrow x = 20$$

Hence the number of girls = 20 and number of boys = $20 + 8 = 28$.

11. Baichung's father is 26 years younger than Baichung's grandfather and 29 years older than Baichung. The sum of the ages of all the three is 135 years. What is the age of each one of them?

Ans. Let Baichung's age be x years,

then Baichung's father's age = $(x + 29)$ years

and Baichung's grandfather's age = $(x + 29 + 26) = (x + 55)$ years.

According to condition,

$$\Rightarrow x + x + 29 + x + 55 = 135$$

$$\Rightarrow 3x + 84 = 135$$

$$\Rightarrow 3x + 84 - 84 = 135 - 84 \quad [\text{Subtracting 84 from both sides}]$$

$$\Rightarrow 3x = 51$$

$$\Rightarrow \frac{3x}{3} = \frac{51}{3} \quad [\text{Dividing both sides by 3}]$$

$$\Rightarrow x = 17 \text{ years}$$

Hence, Baichung's age = 17 years,

Baichung's father's age = $17 + 29 = 46$ years

And Baichung's grandfather's age = $17 + 29 + 26 = 72$ years.

12. Fifteen years from now Ravi's age will be four times his present age. What is Ravi's present age?

Ans. Let Ravi's present age be x years.

After fifteen years, Ravi's age = $4x$ years.

Fifteen years from now, Ravi's age = $(x+15)$ years.

According to question,

$$\Rightarrow 4x = x + 15$$

$$\Rightarrow 4x - x = 15 \quad [\text{Transposing } x \text{ to L.H.S.}]$$

$$\Rightarrow 3x = 15$$

$$\Rightarrow \frac{3x}{3} = \frac{15}{3} \quad [\text{Dividing both sides by 3}]$$

$$\Rightarrow x = 5 \text{ years}$$

Hence, Ravi's present age be 5 years.

13. A rational number is such that when you multiply it by $\frac{5}{2}$ and add $\frac{2}{3}$ to the product, you get $\frac{-7}{12}$. What is the number?

Ans. Let the rational number be x .

According to the question,

$$\Rightarrow \frac{5}{2}x + \frac{2}{3} = \frac{-7}{12}$$

$$\Rightarrow \frac{5}{2}x + \frac{2}{3} - \frac{2}{3} = \frac{-7}{12} - \frac{2}{3} \quad [\text{Subtracting } \frac{2}{3} \text{ from both sides}]$$

$$\Rightarrow \frac{5x}{2} = \frac{-7-8}{12}$$

$$\Rightarrow \frac{5x}{2} = \frac{-15}{12}$$

$$\Rightarrow 5x \times 12 = -15 \times 2$$

$$\Rightarrow 60x = -30$$

$$\Rightarrow \frac{60x}{60} = \frac{-30}{60} \quad [\text{Dividing both sides by 60}]$$

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

Hence, the rational number is $\frac{-1}{2}$.

- 14. Lakshmi is a cashier in a bank. She has currency notes of denominations Rs. 100, Rs. 50 and Rs. 10 respectively. The ratio of the number of these notes is 2 : 3 : 5. The total cash with Lakshmi is Rs. 4,00,000. How many notes of each denomination does she have?**

Ans. Let number of notes be $2x, 3x$ and $5x$.

According to question,

$$100 \times 2x + 50 \times 3x + 10 \times 5x = 4,00,000$$

$$\Rightarrow 200x + 150x + 50x = 4,00,000$$

$$\Rightarrow 400x = 4,00,000$$

$$\Rightarrow \frac{400x}{400} = \frac{4,00,000}{400} \quad [\text{Dividing both sides by 400}]$$

$$\Rightarrow x = 1000$$

Hence, number of denominations of Rs. 100 notes = $2 \times 1000 = 2,000$

Number of denominations of Rs. 50 notes = $3 \times 1000 = 3,000$

Number of denominations of Rs. 10 notes = $5 \times 1000 = 5000$

Therefore, required denominations of notes of Rs. 100, Rs. 50 and Rs. 10 are 2000, 3000 and 5000 respectively.

15. I have a total of Rs. 300 in coins of denomination Re. 1, Rs. 2 and Rs. 5. The number of Rs. 2 coins is 3 times the number of Rs. 5 coins. The total number of coins is 160. How many coins of each denomination are with me?

Ans. Total sum of money = Rs. 300

Let the number of Rs. 5 coins be x ,

number of Rs. 2 coins be $3x$ and

number of Re. 1 coins be $160 - (x + 3x) = 160 - 4x$.

According to question,

$$\Rightarrow 5 \times x + 2 \times (3x) + 1 \times (160 - 4x) = 300$$

$$\Rightarrow 5x + 6x + 160 - 4x = 300$$

$$\Rightarrow 7x + 160 = 300$$

$$\Rightarrow 7x + 160 - 160 = 300 - 160 \quad [\text{Subtracting 160 from both sides}]$$

$$\Rightarrow 7x = 140$$

$$\Rightarrow \frac{7x}{7} = \frac{140}{7} \quad [\text{Dividing both sides by 7}]$$

$$\Rightarrow x = 20$$

Hence, the number of coins of Rs. 5 denomination = 20

Number of coins of Rs. 2 denomination = $3 \times 20 = 60$

Number of coins of Rs. 1 denomination = $160 - 4 \times 20 = 160 - 80 = 80$

16. The organizers of an essay competition decide that a winner in the competition gets a prize of Rs. 100 and a participant who does not win, gets a prize of Rs. 25. The total prize money distributed is Rs. 3,000. Find the number of winners, if the total number of participants is 63.

Ans. Total sum of money = Rs. 3000

Let the number of winners of Rs. 100 be x .

And those who are not winners = $63 - x$

According to the question,

$$\Rightarrow 100 \times x + 25 \times (63 - x) = 3000$$

$$\Rightarrow 100x + 1575 - 25x = 3000$$

$$\Rightarrow 75x + 1575 = 3000$$

$$\Rightarrow 75x + 1575 - 1575 = 3000 - 1575 \text{ [Subtracting 1575 from both sides]}$$

$$\Rightarrow 75x = 1425$$

$$\Rightarrow 75x = 1425 \quad \text{[Dividing both sides by 75]}$$

$$\Rightarrow x = 19$$

Hence, the number of winner is 19

EMMANUEL MISSION SR SEC SCHOOL, BEAWAR
MATHEMATICS
CLASS – VIII

Chapter – 2 : Linear Equations in One Variable

(Ex. 2.3) Solutions

Solve the following equations and check your results.

1. $3x = 2x + 18$

Solution:

We have $3x = 2x + 18$

$\Rightarrow 3x - 2x = 18$ (Transposing $2x$ to LHS)

$\Rightarrow x = 18$

Hence, $x = 18$ is the required solution.

Check: $3x = 2x + 18$

Putting $x = 18$, we have

LHS = $3 \times 18 = 54$

RHS = $2 \times 18 + 18 = 36 + 18 = 54$

LHS = RHS

Hence verified.

2. $5t - 3 = 3t - 5$

Solution:

We have $5t - 3 = 3t - 5$

$\Rightarrow 5t - 3t - 3 = -5$ (Transposing $3t$ to LHS)

$\Rightarrow 2t = -5 + 3$ (Transposing -3 to RHS)

$\Rightarrow 2t = -2$

$\Rightarrow t = -2 \div 2$

$\Rightarrow t = -1$

Hence $t = -1$ is the required solution.

Check: $5t - 3 = 3t - 5$

Putting $t = -1$, we have

LHS = $5t - 3 = 5 \times (-1) - 3 = -5 - 3 = -8$

RHS = $3t - 5 = 3 \times (-1) - 5 = -3 - 5 = -8$

LHS = RHS

Hence verified..

3. $5x + 9 = 5 + 3x$

Ans. $5x + 9 = 5 + 3x$

$\Rightarrow 5x - 3x = 5 - 9$

$$\Rightarrow 2x = -4$$

$$\Rightarrow x = \frac{-4}{2} = -2$$

To check:

$$5x + 9 = 5 + 3x$$

$$\Rightarrow 5 \times (-2) + 9 = 5 + 3 \times (-2)$$

$$\Rightarrow -10 + 9 = 5 - 6$$

$$\Rightarrow -1 = -1$$

$$\Rightarrow \text{L.H.S.} = \text{R.H.S.}$$

Hence, it is correct.

4. $4z + 3 = 6 + 2z$

Ans. $4z + 3 = 6 + 2z$

$$\Rightarrow 4z - 2z = 6 - 3$$

$$\Rightarrow 2z = 3$$

$$\Rightarrow z = \frac{3}{2}$$

To check:

$$4z + 3 = 6 + 2z$$

$$\Rightarrow 4 \times \frac{3}{2} + 3 = 6 + 2 \times \frac{3}{2}$$

$$\Rightarrow 2 \times 3 + 3 = 6 + 3$$

$$\Rightarrow 6 + 3 = 9$$

$$\Rightarrow 9 = 9$$

$$\Rightarrow \text{L.H.S.} = \text{R.H.S.}$$

Hence, it is correct.

5. $2x-1=14-x$

Ans. $2x-1=14-x$

$$\Rightarrow 2x+x=14+1$$

$$\Rightarrow 3x=15$$

$$\Rightarrow x=\frac{15}{3}=5$$

To check:

$$2x-1=14-x$$

$$\Rightarrow 2 \times 5 - 1 = 14 - 5$$

$$\Rightarrow 10 - 1 = 9$$

$$\Rightarrow 9 = 9$$

$$\Rightarrow \text{L.H.S.} = \text{R.H.S.}$$

Hence, it is correct.

6. $8x+4=3(x-1)+7$

Ans. $8x+4=3(x-1)+7$

$$\Rightarrow 8x+4=3x-3+7$$

$$\Rightarrow 8x-3x=-3+7-4$$

$$\Rightarrow 5x=0$$

$$\Rightarrow x=\frac{0}{5}=0$$

To check:

$$8x+4=3(x-1)+7$$

$$\Rightarrow 8 \times 0 + 4 = 3(0 - 1) + 7$$

$$\Rightarrow 0 + 4 = 3 \times (-1) + 7$$

$$\Rightarrow 4 = -3 + 7$$

$$\Rightarrow 4 = 4$$

$$\Rightarrow \text{L.H.S.} = \text{R.H.S.}$$

Hence, it is correct.

$$7. \quad x = \frac{4}{5}(x + 10)$$

$$\text{Ans.} \quad x = \frac{4}{5}(x + 10)$$

$$\Rightarrow 5x = 4(x + 10)$$

$$\Rightarrow 5x = 4x + 40$$

$$\Rightarrow 5x - 4x = 40$$

$$\Rightarrow x = 40$$

To check:

$$x = \frac{4}{5}(x + 10)$$

$$\Rightarrow 40 = \frac{4}{5}(40 + 10)$$

$$\Rightarrow 40 = \frac{4}{5} \times 50$$

$$\Rightarrow 40 = 4 \times 10$$

$$\Rightarrow 40 = 40$$

$$\Rightarrow \text{L.H.S.} = \text{R.H.S.}$$

Hence, it is correct.

8. $\frac{2x}{3} + 1 = \frac{7x}{15} + 3$

Ans. $\frac{2x}{3} + 1 = \frac{7x}{15} + 3$

$$\Rightarrow \frac{2x}{3} - \frac{7x}{15} = 3 - 1$$

$$\Rightarrow \frac{10x - 7x}{15} = 2$$

$$\Rightarrow 3x = 30$$

$$\Rightarrow x = \frac{30}{3} = 10$$

To check:

$$\frac{2x}{3} + 1 = \frac{7x}{15} + 3$$

$$\Rightarrow \frac{2 \times 10}{3} + 1 = \frac{7 \times 10}{15} + 3$$

$$\Rightarrow \frac{20}{3} + 1 = \frac{14}{3} + 3$$

$$\Rightarrow \frac{20 + 3}{3} = \frac{14 + 9}{3}$$

$$\Rightarrow \frac{23}{3} = \frac{23}{3}$$

$$\Rightarrow \text{L.H.S.} = \text{R.H.S.}$$

Hence, it is correct.

9. $2y + \frac{5}{3} = \frac{26}{3} - y$

Ans. $2y + \frac{5}{3} = \frac{26}{3} - y$

$$\Rightarrow 2y + y = \frac{26}{3} - \frac{5}{3}$$

$$\Rightarrow 3y = \frac{26-5}{3}$$

$$\Rightarrow 3y = \frac{21}{3}$$

$$\Rightarrow y = \frac{21}{3 \times 3} = \frac{7}{3}$$

To check:

$$2y + \frac{5}{3} = \frac{26}{3} - y$$

$$\Rightarrow 2 \times \frac{7}{3} + \frac{5}{3} = \frac{26}{3} - \frac{7}{3}$$

$$\Rightarrow \frac{14}{3} + \frac{5}{3} = \frac{26}{3} - \frac{7}{3}$$

$$\Rightarrow \frac{14+5}{3} = \frac{26-7}{3}$$

$$\Rightarrow \frac{19}{3} = \frac{19}{3}$$

$$\Rightarrow \text{L.H.S.} = \text{R.H.S.}$$

Hence, it is correct.

10. $3m = 5m - \frac{8}{5}$

Ans. $3m = 5m - \frac{8}{5}$

$$\Rightarrow 3m - 5m = \frac{-8}{5}$$

$$\Rightarrow -2m = \frac{-8}{5}$$

$$\Rightarrow m = \frac{-8}{5 \times (-2)}$$

$$\Rightarrow m = \frac{4}{5}$$

To check:

$$3m = 5m - \frac{8}{5}$$

$$\Rightarrow 3 \times \frac{4}{5} = 5 \times \frac{4}{5} - \frac{8}{5}$$

$$\Rightarrow \frac{12}{5} = 4 - \frac{8}{5}$$

$$\Rightarrow \frac{12}{5} = \frac{20-8}{5}$$

$$\Rightarrow \frac{12}{5} = \frac{12}{5}$$

$$\Rightarrow \text{L.H.S.} = \text{R.H.S.}$$

Hence, it is correct.

EMMANUEL MISSION SR SEC SCHOOL, BEAWAR
SOCIAL STUDIES (CIVICS)
CLASS – VIII
Chapter - 24 : The Constitution

ANSWER KEY

QUESTION AND ANSWERS

Q1 Tick the correct Answer

1. Which of these does not form an organ of government?

Answer- Civil servants

2. Which of these ideals in the Constitution provides for equal opportunities in the economic field?

Answer- Democratic

3. The President of the Constituent Assembly was

Answer- Dr. Rajendra Prasad

4. At present our Constitution consists of

Answer- 395 Articles and 12 Schedules

5. The number of subjects in the Union List is:

Answer- 97

Q2. Fill in the Blanks

1. It is the Constitution which safeguards the ----- of the citizens.

Answer- Rights

2. Laws regulate the civic life of the -----

Answer- Community

3. A nation is ----- when it is free in its internal and external matters.

Answer- Sovereign

4. ----- means brotherhood.

Answer- Fraternity

5. Dissent is an important feature of ----

Answer- Democracy

Q3 True and False

- | | | |
|----|--|--------------|
| 1. | Constitution is the set of rules according to which the government of a country runs. | True |
| 2. | Laws are not necessary for the smooth running of the society. | False |
| 3. | Socialism lays emphasis on economic justice. | True |
| 4. | Deep-rooted ills can be removed all at once. | False |
| 5. | In a democratic country the rights of the people have a great importance of their own. | True |

Q4 Answer the following Questions

1. What is a Constitution?

Answer- The Constitution is a collection of basic rules providing the framework for the governance of a country.

Q2. Why does a democratic country need a constitution?

Answer- 1. It lays down the ideals which help to develop trust and coordination among people.

2. It highlights the structure of government, its composition and division of powers.

3. It clearly indicates the limits on the powers of government and guarantees the rights of the people.

Q3. What are the chief features of the Indian Constitution?

Answer- The chief features of the Indian Constitution are—

1. Written and detailed constitution –

The Constitution of India is a quite lengthy document

2. Partly rigid and partly flexible –

Some provisions can easily be amended by a simple majority vote or others can only by two- third majority of the Parliament

3. Federal in structure and unitary in spirit-

There is division of powers and independent judiciary also.

4. Parliamentary form of government-

Real power lie with the Prime Minister and all ministers are responsible to the Prime Minister and Parliament also.

5. Separation of powers – in three organs Legislature, The Executive, The Judiciary

6. A secular state- Everybody is equal before law and state has no religion of its own.

7. A welfare state - the main aim is to guide the government to strive more and more for the welfare of the people.

8. Fundamental Rights of the citizens - These have been given to safeguard people

9. Directive Principles of State Policy- To achieve the aim for the welfare of the people.

10. Independent Judiciary- To safeguard the fundamental rights and decide disputes between governments.

Q4. Can you imagine what will happen if there are no restrictions on the powers of the elected representatives?

Answer- If there are no restrictions on the powers of the elected representatives they can misuse their power, and it will be injustice to the people who had reposed confidence in them.

Q5. How is dissent an important element of law making?

Answer- Dissent encourages discussion of various aspects of the law and can prove to be a useful tool in successful law making. Dissent by opposition, people, NGOs etc can help bring out the shortcomings of the law and thus help in its amendment and betterment.

EMMANUEL MISSION SR SEC SCHOOL, BEAWAR

**SANSKRIT
CLASS – VIII**

पंचमः पाठः पीयूष - बिन्दवः (श्लोकाः)

अभ्यासाः

1. विकल्पेभ्यः उचितं उत्तरम् चित्वा लिखित-
 - (i) क
 - (ii) क
 - (iii) ख
 - (iv) ग
 - (v) ख
3. रेखांकितपदानि आधृत्य प्रश्ननिर्माणं कुरुत-
 - (i) केन धनम् आप्नोति?
 - (ii) अयम् कः कोशः अस्ति?
 - (iii) राजा कुत्र पूज्यते?
 - (iv) विद्यार्थिनः अति लक्षणं ?
 - (v) के न शोभन्ते?
4. श्लोकांशानां परस्परं मेलनम् कुरुत-

(i) विद्या ददाति विनयं	(क) विनयात् याति पात्रताम्
(ii) काकचेष्टा बको ध्यानं	(ख) श्वाननिद्रास्तथैव च
(iii) स्वदेशे पूज्यते राजा	(ग) विद्वान् सर्वत्र पूज्यते
(iv) विद्याहीनाः न शोभन्ते	(घ) निर्गन्धा इव किंशुका
(v) व्ययतः वृद्धिं आयाति	(ङ) क्षयं ख्यातिं संचयात्
5. अधोलिखितशब्दानां मंजूषायाः उचितं विलोमपदं चित्वा लिखत-
 - (i) शयनं
 - (ii) व्ययतः
 - (iii) आलस्यः
 - (iv) विशालः
 - (v) क्षयम्
6. अधोलिखितश्लोकस्य अन्वयं पूरयत-
 - (i) कदाचन
 - (ii) राजा
 - (iii) पूज्यते
 - (iv) विद्वान्

EMMANUEL MISSION SR SEC SCHOOL, BEAWAR
COMPUTER
CLASS – VIII
Assignment Of Lesson -3

Q1. Fill in the blanks:

- a. _____ can access and display data from tables.
- b. The options for creating query are present in the _____ tab.
- c. To sort a query, the table must be opened in _____ view.
- d. Queries can be created using _____ or _____.

Q2. Answer the following in one word:

- a. In which tab is the Run button located?
- b. Which pane helps you to access the saved query?
- c. Which helps the queries to sort the records in a particular order?
- d. Which field indicates how to filter the records in the query output?

Q3. Answer the following:

- a. What is the use of Query?
- b. What are the two major sections in Query Design view?
- c. How will you change query Datasheet view to Design view?
- d. Write the fields available in Query Design view?

EMMANUEL MISSION SR SEC SCHOOL, BEAWAR
GENERAL KNOWLEDGE
CLASS – VIII
CURRENT AFFAIRS

Q1. Who is appointed as President of Pradesh Congress Committee (PCC) in Rajasthan?

Answer- Mr. Govind Singh Dotasara

Q2. How many states we have in India?

Answer- 28 States

Q3. How many Union Territories we have in India?

Answer- 8 Union Territories

Q4. Who has resigned from the post of Deputy Chief Minister recently in Rajasthan?

Answer- Mr. Sachin Pilot

Q5. Who is the President of India?

Answer- Mr. Ram Nath Kovind

EMMANUEL MISSION SR SEC SCHOOL, BEAWAR
MORAL SCIENCE
CLASS – VIII
Chapter – 3 “Congenial Atmosphere At Home”

EXERCISE :

(A) Answer the following:

Q1. How does the relationship between the parents influence their child's mind ?

Ans. If there is mutual distrust and frequent clashes between the parents the mental framework of their child will also get affected.

Q2. Why should fault finding be avoided at home ?

Ans. Finding fault with anything that the other family member does will not improve matter at home.

Q3. What are the things necessary for a harmonious family life ?

Ans. The things necessary for harmonious family life are:

1. Helping and understanding one another.
2. Keeping everything neat and tidy .
3. Desist from fault finding.

Q4. How is the home at training ground for our social life outside?

Ans. We will behave in the same manner outside the house as we behave with our family members. whatever outside influence we have our individual character is primarily built up at home.

(B) Explain the following lines :

Q1. We must not erect an Iron curtain between our family and the outside world.

Ans. The home is a private place but it's door should be open to the fresh air that new contact and friendship bring. To get the best out of our home life we must understand each members of the family. We must continuously work for peace and harmony at home. We will behave in the same manner outside the house as we behave with our family members.

Q2. Though occasional quarrels in a family are easy to understand, habitual quarrels can cause serious damage to the family Unity.

Ans. If There is mutual distrust and frequent clashes between the parents, the mental framework of their child will also get affected. The best way for the children would be to forgive and forget all unpleasant things, said and done during the quarrel , as soon as possible.

(C) Fill in the blanks:

1. The foundation of Happy Home is mutual_____and_____ among all member of a family.
2. The relationship and the attitude of parents towards is the_____ for their children to follow.
3. If there is a mutual distrust and frequent clashes between the_____,the mental framework of their child will also get_____.
4. The best way for the children would be to forgive and forget all_____things.
5. Though occasional quarrel in the family are easy to understand ,habitual quarrel can causes serious damage to the family_____.
6. It is true that_____and_____ is always present among the members of a family.
7. Each member of a family has_____and_____.
8. Always try to keep yourself_____.
9. Indirect criticism is always very_____and it does not do any_____.
- 10._____ and learn to enjoy what the other family members_____.
11. The home is a training ground for our_____ in the outside world .
12. We must continuously work for_____and_____ at home.

Ans. 1. Love and respect , 2. Guiding light , 3. Parents & affected , 4. Unpleasant , 5. Unity , 6. Love & affection , 7. Responsibilities & care , 8. Organized , 9. Painful & good , 10. Respect & like , 11. Social life , 12. Peace & harmony

(D) True or false :

1. The foundation of a happy family is mutual love and respect among all members of a family.
2. It is not true that love and affection is always present among the members of a family.
3. Each member of a family has respect and care.
- 4 Indirect criticism is always very good and one should do that to everyone.
5. We must continuously work for peace and harmony at home .

Ans. 1. (T) , 2. (F) , 3.(T) , 4.(F) , 5.(T)