|  |  | INDIAN SCHOOL AL WADI AL KABIR <br> Class VIII, Mathematics Linear Equations- Worksheet (DTQ) 25-08-2021 |
| :---: | :---: | :---: |
| Descriptive Questions-Short Answer Type (2 marks each) |  |  |
| Q1. | Solve: $\frac{5 x-4}{8}-\frac{x-3}{5}=\frac{x+6}{4}$ |  |
| Q2. | Find the value of $y$, if $\frac{y}{2 y+6}=\frac{3}{8}$ |  |
| Q3. | Solve: $\frac{m}{2}-$ | $=25$ |
| Descriptive Questions- Long Answer Type 1 (3 marks each) |  |  |
| Q4. | The sum of three consecutive multiples of 6 is 162 . Find the multiples. |  |
| Q5. | The sum of two numbers is 78 . Their difference is 18 . Find the numbers. |  |
| Q6. | Solve: $5 \mathrm{x}-2(2 x-7)=2(3 x-1)+\frac{7}{2}$ |  |
| Q7. | A grand mother is fifteen times older than her granddaughter. She is also 70 years older than her. Find their present ages. |  |
| Q8. | The perimeter of a rectangle is 320 cm . If the ratio of length and breadth is $5: 3$, find the length and breadth of the rectangle. |  |
| Q9. | Solve the equation:$4(3 w+2)-5(6 w-1)=2(w-8)-6(7 w-4)+4 w$ |  |
| Q10. | Twenty-five years from now, I will be $3 / 2$ times of my present age. What will be my age after twenty-five years? |  |
| Q11. | Present ages of Sam and Ram are in the ratio 8:9. Five years from now the ratio of their ages will be $9: 10$. Find their present ages. |  |
| Descriptive Questions Long Answer Type 2 (4 marks each) |  |  |
| Q12. | The sum of ₹9000 is in the form of denominations of ₹100 and ₹500.if the total number of notes is 50 , find the number of notes of each type. |  |
| Q13. | Amul has ₹ 780 in the denominations of ₹ 100 , ₹ 50 , and ₹ 10 . The number of notes is in the ratio $5: 4: 8$. Find the number of notes of each kind. |  |
| Q14. | The numerator of a fraction is 4 less than the denominator. If 1 is added to both its numerator and denominator, it becomes $\frac{1}{2}$. Find the fraction. |  |
| Q15. | The digits of a two-digit number differ by 3 . If digits are interchanged and the resulting number is added to the original number, we get 121 . Find the original number. |  |


| ANSWERS |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 6 <br> 0 <br>  <br>  <br> 4 | 1. | $x=8$ | 2 | $y=9$ | 3 | $\mathrm{m}=60$ | 4 | The multiples are 48, 54, 60 |
|  | 5 | The numbers are 30 and 48 | 6 | $x=\frac{5}{2}$ | 7 | Age of granddaughter $=5 \mathrm{yrs}$ <br> Age of grandmother = 75 yrs | 8 | Length = <br> 100 cm and <br> breadth = <br> 60 cm |
|  | 9 | $w=\frac{-5}{18}$ | 10 | 75 years | 11 | 40,45 | 12 | No. of ₹100 notes $=40$ <br> No. of ₹500 notes $=10$ |
|  | 13 | No. of ₹ 10 notes $=5$ <br> No. of ₹50 <br> notes $=4$ <br> No. of ₹10 <br> notes $=8$ | 14 | $\frac{3}{7}$ | 15 | The original number can be 47 or 74 |  |  |

