



# INDIAN SCHOOL AL WADI AL KABIR

Class VII, Mathematics (2023-24)

## Worksheet DTQ – SIMPLE EQUATIONS

### SHORT ANSWER TYPE QUESTIONS- 7 QUESTIONS. (2 Marks each)

Q1.	Solve: $3(m - 2) = 15$
Q2.	Express as equation: 1. The sum of twice of a number $y$ and 15 is 27. 2. Two-fifths of a number added to 7 gives 30.
Q3.	Check whether $x=3$ is the solution of the equation $2x-6 = 12$
Q4.	Solve: $\frac{x+2}{3} = 12$
Q5.	Write as statement: 1. $a + 6 = 50$ 2. $2x - 11 = 7$
Q6.	Set up an equation for the following cases: 1. Sum of two numbers is 85. The greater number is 13 more than the smaller (take smaller numbers as $m$ ) 2. Perimeter of a rectangle is 20m. Its length is 2m greater than its breadth (take breadth as $y$ )
Q7.	When I add 7 to thrice a number, I get 28. Find the number.

### SHORT ANSWER TYPE- 5 QUESTIONS. (3 Marks each)

Q8.	The sum of 31 and three times a number is 58. Find the number.
Q9.	Raghav has 14 marbles more than five times the marbles Ratan has. If Raghav has 64 marbles, how many marbles Ratan have?
Q10.	Nine less than two-thirds of a number is 3. Find the number.
Q11.	Solve: - 1. $6 + 3x = 15$ 2. $3(t + 2) = 21$ 3. $\frac{3p}{2} + 7 = 16$
Q12.	Ankit is 7 years older than half of Arun's age. If Ankit is 35. How old is Arun?

### LONG ANSWER TYPE- 3 QUESTIONS. (4 Marks each)

Q.13	Rohit's father is 5 years more than three times the present age of Rohit. <b>(CBQ)</b> (1) Write father's age as expression if the present age of Rohit is taken as $y$ . (2) Find Rohit's present age if the present age of father is 35 years
Q14.	In a test Abha gets twice the marks as that of Palak. Two times Abha's marks and three times Palak's mark makes 280. <b>(CBQ)</b> (1) If Palak gets $x$ marks, what is Abha's mark? (2) Frame the equation. (3) Find the solution of the equation. (4) Find the marks obtained by Abha.
Q15.	Anamika and Amit donate some money in a Relief Fund. The amount paid by Amit is ₹125 more than that of Anamika. If the total money paid them is ₹975. Find the money donated by each of them.

**ANSWERS**

<b>Q1.</b>	m= 7	<b>Q2.</b>	1. $2y + 15 = 27$ 2. $\frac{2y}{5} + 5 = 30$	<b>Q3.</b>	No
<b>Q4.</b>	x= 34	<b>Q5.</b>	1. The sum of a number and 6 is 50 2. 11 taken away from twice the number is 7	<b>Q6.</b>	1. $2m + 13 = 85$ 2. $4y + 4 = 20$
<b>Q7.</b>	7	<b>Q8.</b>	9	<b>Q9.</b>	10
<b>Q10.</b>	18	<b>Q11.</b>	1. x=3 2. t=5 3. p=3	<b>Q12.</b>	56 years
<b>Q13.</b>	1. $3y + 5$ 2. 10 years	<b>Q14.</b>	1. $2x$ 2. $7x = 280$ 3. $X = 40$ 4. 80 marks	<b>Q15.</b>	Anamika ₹ 425 Amit ₹ 550

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