INDIAN SCHOOL AL WADI AL KABIR

Class VII, Mathematics (2024-25)

Worksheet DTQ – SIMPLE EQUATIONS

SHORT ANSWER TYPE QUESTIONS- 7 QUESTIONS (2 Marks each)	
Q1.	Convert the following equation in the statement form: i) 19 – 2y=11 ii) $\frac{m}{3}$ + 8= 18
Q2.	Write the following statement in an equation form: i) If 15 is taken away from 3 times of a number, we get 30. Find the number. ii) 5 less than four-fifth of a number is 15
Q3.	Check whether the value given in the bracket is a solution to the given equation. i) 2m – 6 =10 (m=8) ii) $\frac{x}{4}$ = 7 (x=8)
Q4.	Set up an equation in the following cases: i)The cost of a television is ₹50 more than 10 times the cost of a fan. The cost of the television is 13450. ii) Sumesh has 3 boxes of different weights. Weight of box A is 5kg more than box B and weight of box C is 2Kg more than box B. The total weight of the 3 boxes is 40kg.
Q5.	Solve the following equations: a)2y +$\frac{2}{5}$= 14 b) $\frac{a}{4}$ +5=7
Q6.	The angles of a triangle are 3x°, (2x+60) ° and (5x−40)°. Find x.
Q7.	A number when added to its half gives 72. Find the number.
SHORT ANSWER TYPE- 5 QUESTIONS. (3 Marks each)	
Q8.	Solve: i)4(m−3) =24 ii) −4(y+8) =68
Q9.	In a class test Arjun scored 7 marks more than twice the lowest score. If Arjun's score is 35, find the lowest score in the test.

Q10.	In an isosceles triangle, if the vertex angle is twice either base angles. Find the angles of the triangle. (CBQ)
Q11.	Sreya's father is 5 years younger than 3 times Sreya's age. If the father's present age is 40, find Sreya's age.
Q12.	Find 2 consecutive natural numbers whose sum is 63.
LONG ANSWER TYPE- 3 QUESTIONS. (4 Marks each)	
Q13.	Meenu thought of a number. She multiplied the number by 3 and subtracted 25 from it. The answer she got is 2 times the number she thought of. Find the number that she thought of.
Q14.	The length of a rectangle is 8 cm more than its breadth and its perimeter is 256 cm. Find its length and breadth.
Q15.	Take any number, multiply it by 4 and then add 49. Now, divide the result by 7. If the answer you get is 7, then form an equation and solve it to find the number.

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ANSWERS					
Q1.	i)Two times a number subtracted from 19 gives11. ii)One-third of a number added to 8 gives 18	**Q2.**	i)3x−15=30 ii)$\frac{4}{5}$ y − 5=15	**Q3.**	i)Yes ii) No
Q4.	i)10x +50 =13450 ii) 3x+7=40	**Q5.**	a)6 $\frac{4}{5}$ b)8	**Q6.**	x =16
Q7.	48	**Q8.**	i) m=9 ii)y=−25	**Q9.**	14
Q10.	45°, 45°, 90°	**Q11.**	15 years	**Q12.**	31 and 32
Q13.	25	**Q14.**	L=68cm, B=60cm	**Q15.**	0