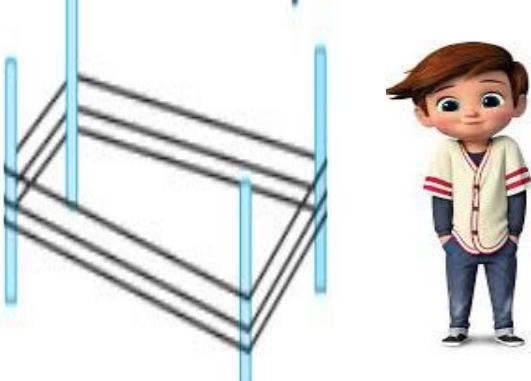


INDIAN SCHOOL AL WADI AL KABIR
Class VIII, Mathematics
MCQ – LINEAR EQUATIONS IN ONE VARIABLE
 25-08-2021

OBJECTIVE TYPE (1 Mark)

Q.1.	The solution of the equation $10 - (x + 2) = 7x$ is							
A	5	B	-2	C	0	D	1	
Q.2.	When $5 = \frac{2}{3}(2x - 1)$, the value of x is							
A	$\frac{17}{4}$	B	$\frac{17}{2}$	C	4	D	2	
Q.3.	If $4x + 12 = 24$, then $x = ?$							
A	48	B	3	C	12	D	8	
Q.4.	If $k - 22 = 13 - 6k$, find the value of k							
A	5	B	1	C	-1	D	-5	
Q.5.	The solution of the equation $3(p - 2) = -9$							
A	-23	B	-22	C	-21	D	-1	
Q.6.	The sum of two consecutive numbers is 21. Find the numbers							
A	(1,20)	B	(17,4)	C	(10,11)	D	12, 13)	
Q.7.	Present ages of Arun and Gokul are in the ratio 4:5. Two years back, their ages were in the ratio 3:4. Find their present ages.							
A	Arun 8 years, Gokul 10 years	B	Arun 10 years, Gokul 12 years	C	Arun 10 years, Gokul 8 years	D	Arun 12 years, Gokul 10 years	
Q.8.	If $6m - 4m - 3(3 - m) = 6$, find the value of m							
A	5	B	3	C	6	D	1	
Q.9.	The solution of $2y + 9 = 4$ is							
A	$-\frac{5}{2}$	B	$-\frac{2}{5}$	C	-5	D	$\frac{4}{9}$	
Q.10.	If $\frac{5m}{6} + \frac{3m}{4} = \frac{19}{12}$, then the value of m is							
A	-2	B	1	C	-1	D	2	

Q.11.	The sum of three consecutive even numbers is 36. Find the numbers.								
	A	12,13,14	B	12,14,16	C	10,12,14	D	10,11,12	
Q.12.	The difference between Rohan's age and Shalom's age is 10. Five years ago, Shalom's age was twice that of Rohan's age. Find Rohan's present age.								
	A	10 years	B	15 years	C	5 years	D	25 years	
Q.13.	A number when added to its half gives $\frac{9}{2}$. Find the number.								
	A	9	B	6	C	4	D	3	
Q.14.	The difference between two numbers is 60. The ratio of the numbers is 2:3. Find the numbers.								
	A	120,160	B	120,180	C	140,200	D	160,180	
Q.15.	Twenty more than one-fifth of a number is 120. Find the number.								
	A	200	B	500	C	100	D	140	
Fill in the blanks									
Q16.	If twice a number increased by 3 gives 15, then the number is _____.								
Q17.	The unique value of the variable that satisfies the equation is called the _____ of the equation.								
Q18.	The solution of the equation $4x - 8 = 2x + 6$ is $x =$ _____.								
Q19.	If $2y - \frac{1}{2} = y - \frac{1}{2}$ then the value of y is _____								
Q20.	If fifteen years from now, Ravi's age will be four times his present age, Ravi's present age is _____.								
Q21.	<p>Sandeep has tied ropes tightly between 4 poles, making a rectangular shape. The length of each rope is 36 m. The distance between three consecutive poles is in the ratio 4:5.</p> <p>Based on above information answer the following questions:</p>								
I)	The length of the rectangular shape is								
	A	5 m	B	6 m	C	8 m	D	10 m	
II)	The breadth of the rectangular shape is								

	A	8 m	B	7 m	C	6 m	D	4 m
III)	The area covered by the rectangular shape							
	A	80 sq.m	B	8 sq.m	C	800 sq.m	D	100 sq.m
IV)	If Sandeep has tied 3 ropes of same length in same rectangular shape as shown in the figure, find the total length of rope he has used for it.							
	A	100 m	B	80 m	C	108 m	D	180 m
V)	If the length and breadth of the rectangular shape is to be increased by 4 m, what is the length of rope required for one rectangular shape?							
	A	50 m	B	56 m	C	42 m	D	52m
ANSWERS								
	Q.1. (D). 1		Q.2 A) $\frac{17}{4}$		Q.3. B) 3		Q.4 A) 5	
	Q.5. D) -1		Q.6 C) 10,11		Q.7 A) Arun 8 years, Gokul 10 years		Q.8 B) 3	
	Q.9. A) $\frac{-5}{2}$		Q.10 B)m= 1		Q.11. C) 10,12,14		Q.12 B) 15 years	
	Q.13. D) 3		Q.14. B) 120,180		Q.15. B) 500		Q.16. x=6	
	Q.17. solution		Q.18. x = 7		Q.19. y = 0		Q.20. 5 years	
	Q.21.I) D) 10 m		Q.21.II) A) 8 m		Q.21.III) A) 80 sq.m		Q.21.IV) C) 108 m	
	Q.21.V) D) 52 m							
