D CUBE AURA

CLASS VII – MATHEMATICS – CHAPTER 04 SIMPLE EQUATIONS

Nan	ne:							Date:	
01 .	Write the e	quation fo	r 'The sum of three t	imes x a	and 11 is 32 '	•			
	(a). 3x + 11	= 32	(b). x + 11 = 32		(c). 3x = 32		(d). x + 11 = 3	3	
02 .	Raman's fat	ther's age i	s 5 years more than	three ti	imes Raman's	s age. Ra	aman's father	[.] is 44 y	ears old. Set
	up an equation to find Raman's age.								
	(a). x + 3 = 4	44	(b). 3x + 5 = 44		(c). x + 5 = 4	4	(d). 3x – 5 = 4	44	
03 .	What is <i>n</i> in	What is <i>n</i> in 3 <i>n</i> + 7 = 25?							
	(a). 7		(b). 5		(c). 6		(d). 8		
04 .	What is / in	3/ = 42?							
	(a). 2		(b). 14		(c). 18		(d). 12		
05 .	Write the equation for 'If you subtract 5 from 6 times a number, you get 7 '.								
	(a). 6x – 5 =	- 7	(b). x – 5 = 7		(c). 6x = 7		(d). $x - 5 = 4$		
06 .	A shopkeep <mark>er sells mangoes</mark> in two types of boxes, one small and one large. A large box contains as							ntains as	
	many as 8 small boxes plus 4 loose mangoes. Set up an equation which gives the number of mangoes in								
	each small box. The number of mangoes in a large box is given to be 100.								
	(a). 8m = 10	00	(b). 8m + 4 = 100		(c). m + 4 =	100	(d). 8m – 4 =	100	
07 .	What is <i>p</i> in	<mark>1 2<i>p</i> – 1</mark> = 2	3?						
	(a). 14		(b). 13		(c). 12		(d). 11		
08 .	What is $y \ln 8y = 36$?								
	(a). 2		(b). 4		(c). 12		(d). 9/2		
09 .	Write the e	<mark>quation</mark> fo	r 'The number <i>x</i> is gr	eater b	<mark>y</mark> 5 than 9'.				
	(a). x – 5 = 9	9	(b). x + 5 = 9		(c). 5x = 9		(d). x + 9 = 5		
10 .	rfan says th <mark>at he has 7 mar</mark> bles more than five times the marbles Parmit has. Irfan has 37 marbles.								
	(Take <i>m</i> to be the number of Parmit's mar <mark>bles.) Se</mark> t up an equation.								
	(a). 5m = 37	7	(b). 5m + 7 = 37		(c). m + 5 = 3	37	(d). m + 7 = 3	37	
11 .	L. What is x in $4x + 5 = 65$?								
	(a). 13		(b). 14		(c). 15		(d). 16		
12 .	What is <i>b</i> in	n b/2 = 6?							
	(a). 4		(b). 8		(c). 3		(d). 12		
13 .	Write the e	Nrite the equation for 'One third of a number plus 5 is 8.							
	(a). (n/3)+5	= 8	(b). (n/2) +5 = 8		(c). (n/5) + 3	8 = 8	(d). (n/3) – 5	5 = 8	
14 .	Laxmi's father is 49 years old. He is 4 years older than three times Laxmi's age. Take Laxmi's age to be y								
	years.) Set up an equation.								
	(a). 3y = 49		(b). 3y + 4 = 49		(c). y + 4 = 4	9	(d). 3y – 4 =	49	
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15 .	<i>W</i> hat is <i>y</i> in 10 <i>y</i> – 20 = 50?							
	(a). 9	(b). 8	(c). 7	(d). 6				
16 .	What is <i>x</i> in (x/3) = (5/4)?							
	(a). 20	(b). 12/5	(c). 5	(d). 15/4				
17 .	Write the equation for 'The sum of two times y and 10 is 42 '.							
	(a). 2y + 10 = 42	(b). y + 10 = 42	(c). 2x = 42	(d). y + 11 = 3				
18 .	In an isosceles trian	n an isosceles triangle, the vertex angle is twice either base angle. (Let the base angle be b in degrees						
	Remember that the sum of angles of a triangle is 180 degrees). Set up an equation.							
	(a). x + 2x = 180	(b). x + 2x + 2x = 180	(c). 4x = 180	(d). 3x = 180				
19 .	What is <i>n</i> in $3n - 2 = 46$?							
	(a). 14	(b). 15	(c). 16	(d). 17				
20 .	What is <i>n</i> in (n/5) = (7/15)?							
	(a). 3/7	(b). 75/7	(c). 21	(d). 7/3				
Q02	L. Fill in the blanks:							
	(a). An	is a condition on a varial	ole.					
	(b). In Eq <mark>uation 4x + 5 = 65, the</mark> is (4 <i>x</i> + 5).							
	(c). If we <mark>add the</mark> same number to both sides of a balance equation, the balance is							
	(d). A takes on different numerical values; its value is not fixed.							
	(e). In Equation 4x + 5 = 65, the is 65.							
	(f). If we <mark>subtrac</mark> t the same number from both sides of a balance equation, the balance is							
	(g). In an <mark>equatio</mark> n there is always an <u>sign</u> sign.							
	(h). In Equation 6x + 7 = 19, the L.H.S. is							
	(i). In Equation 3x + 4 = 25, the is (3x + 4).							
	(j). If we <mark>multiply</mark> both sides of the equa <mark>tion by t</mark> he same number, the balance is							
	(k). The of an expression thus formed depends upon the chosen value of the variable.							
	(l). In Equation 3x + 4 = 25, the is 25.							
	(m).If we divide both sides of the equation by the same number, the balance is							
	(n). If we fail to do the same mathematical operation on both sides of a balanced equation, the							
	balance is	·						
Q02	2. Solve the followi	ng equations:						
	(a). 10 <i>p</i> = 100	(b). 10 <i>p</i> + 10 = 100	(c). 4 (<i>m</i> + 3) = 18	(d). $-2(x+3) = 5$				
	(e). p/4 = 5	(f). −p/3 =5	(g). $2(x + 4) = 12$	(h). $3(n-5) = 21$				
	(i). 3p/4 = 6	(j). 3 <i>s</i> = −9	(k). $3(n-5) = -21$	(I). $3-2(2-y) = 7$				
	(m). 3 <i>s</i> + 12 = 0	(n). 3 <i>s</i> = 0	(o). $-4(2-x) = 9$	(p). $4(2-x) = 9$				
	(q). 2 <i>q</i> + 6 = 0	(r). 2 <i>p</i> + 6 = 12	(s). 4 + 5 (<i>p</i> −1) = 3	4 (t). $34-5(p-1)=4$				

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- **Q01**. Find a number, such that one fourth of the number is **3** more than **7**.
- **Q02**. The sum of three times a number and 11 is 32. Find the number.
- Q03. Raju's father's age is 5 years more than three times Raju's age. Find Raju's age, if his father is 44 years old.
- **Q04**. Maya, Madhura and Mona are friends studying in the same class. In a class test in geography, Maya got 16 out of 25. Madhura got 20. Their average score was 19. How much did Mona score?
- Q05. Sachin scored twice as many runs as Rahul. Together, their runs fell two short of a double century. How many runs did each one score?
- Q06. In a school, the number of girls is 50 more than the number of boys. The total number of students is 10
- **Q07**. Find the number of girls.
- **Q08**. Two times a number increased by 5 equals 9. Find the number.
- **Q09**. 9 added to twice a number gives 13. Find the number.
- Q10. 1 subtracted from one-third of a number gives 1. Find the number.
- Q11. After 25 years, Rama will be 5 times as old as he is now. Find his present age.
- **Q12**. After 20 years, Manoj will be 5 times as old as he is now. Find his present age.
- Q13. My younger sister's age today is 3 times, what it will be 3 years from now minus 3 times what her age was 3 years ago. Find her present age.
- **Q14**. If 45 is ad<mark>ded to half a number, the r</mark>esult is triple the number. Find the number.
- Q15. In a family, the consumption of wheat is 4 times that of rice. The total consumption of the two cereals is 80 kg. Find the quantities of rice and wheat consumed in the family.
- Q16. In a bag, the number of one-rupee coins is three times the number of two rupees coins. If the worth of the coins is Rs120, find the number of 1 rupee coins.
- Q17. The sum of two consecutive multiples of 2 is 18. Find the numbers.
- **Q18**. Two com<mark>plement</mark>ary angles differ by 20°. Find the angles.
- Q19. 150 has been divided into two parts such that twice the first part is equal to the second part. Find the parts.
- Q20. In a class of 60 students, the number of girls is one third the number of boys. Find the number of girls and boys in the class.
- **Q21**. Two-third of a number is greater than one-third of the number by 3. Find the number.
- **Q22**. A number is as much greater than 27 as it is less than 73. Find the number.
- Q23. A man travelled two fifth of his journey by train, one-third by bus, one-fourth by car and the remaining 3 km on foot. What is the length of his total journey?
- **Q24**. Twice a number added to half of itself equals 24. Find the number.
- **Q25**. Thrice a number decreased by 5 exceeds twice the number by 1. Find the number.