MATHEMATICS

SIMPLE EQUATION

 Write the following statement in the form of an equation: The sum of three times x and 10 is 13.

 (A) 3x + 10 = 13
 (B) 3x - 10 = 13
 (C) 3x + 13 = 10
 (D) none of these

 ANS : (A)
 Write the following statement in the form of an equation: If you subtract 3 from 6 times a number, you get 9

 (A) 3x - 6 = 9
 (B) 6x - 3 = 9
 (C) 6x + 3 = 9
 (D) 3x + 6 = 9

ANS : (B)

3. Write the following statement in the form of an equation:

One fourth of n is 3 more than 2

(A)
$$\frac{n}{4} - 2 = 3$$
 (B) $\frac{n}{4} + 2 = 3$ (C) $\frac{n}{2} - 4 = 3$ (D) $\frac{n}{2} + 4 = 3$

ANS:(A)

4. Write the following statement in the form of an equation:

One third of a number plus 2 is 3

(A)
$$\frac{m}{3} - 2 = 3$$
 (B) $\frac{m}{3} + 2 = 3$ (C) $\frac{m}{2} - 3 = 3$ (D) $\frac{m}{2} + 3 = 3$

ANS:(B)

5. Write the following statement in the form of an equation:

Taking away 5 from x gives 10

(A)
$$x - 5 = 10$$
 (B) $x + 5 = 10$ (C) $x - 10 - 5$ (D) none of these

ANS : (A)

6. Write the following statement in the form of an equation:

Four times a number p is 8.

(A) 4P = 8 (B) P + 4 = 8 (C) p - 4 = 8 (D) $p \div 4 = 8$

ANS:(A)

7. Write the following statement in the form of an equation:

Add 1 to three times n to get 7

(A) 3n + 1 = 7 (B) 3n - 1 = 7 (C) 3n + 7 = 1 (D) none of these

ANS : (A)

8. Write the following statement in the form of an equation:

The number b divided by 6 gives 5.

(A)
$$\frac{b}{6} = 5$$
 (B) $b - 5 = 6$ (C) $5b = 6$ (D) $b + 5 = 6$

ANS : (A)

9. The solution of the equation
$$x + 3 = 0$$
 is
(A) 3 (B) - 3 (C) 0 (D) 1
ANS : (B)
10. The solution of the equation $x - 6 = 1$ is
(A) 1 (B) 6 (C) - 7 (B) 7
ANS : (D)

- 11. The solution of the equation 5x = 10 is (A) 1 (B) 2 (C) 5 (D) 10
- ANS : (B)

12. The solution of the equation
$$\frac{m}{2} = 3$$
 is
(A) 2 (B) 3 (C) 12 (D) 6

ANS : (D)

13.	The solution of the equation $7n + 5 = 12$ is			
	(A) 0	(B) – 1	(C) 1	(D) 5
ANS	: (C)			
14.	The solution of the equ	uation $4p - 3 = 9$ is		
	(A) 1	(B) 2	(C) 3	(D) 4
ANS	: (C)			
15.	The solution of the equ	uation $5p + 2 = 7$ is		
	(A) 0	(B) 1	(C) – 1	(D) 2
ANS :	(B)			
16.	The solution of the equ	uation $3p - 2 = 4$ is		
	(A) 0	(B) 1	(C) 2	(D) 3
ANS	: (C)			
17.	The solution of the equ	uation $p + 4 = 4$ is		
	(A) 0	(B) 4	(C) – 4	(D) 8
ANS	: (A)			
18.	The solution of the equ	uation $m - 1 = 2$ is		
	(A) 1	(B) 2	(C) 3	(D) 6
ANS	: (C)			
19.	The solution of the equ	uation $2m = 4$ is		
	(A) 1	(B) 2	(C) -1	(D) -2
ANS :	(B)			
20.	The solution of the equ	uation $\frac{m}{3} = 3$ is		
	(A) 3	(B) 6	(C) 9	(D) 12
ANS :	(C)			

21. The solution of the equation = 6 is

	(A) 6	(B) 7	(C) 14	(D) 3		
ANS :	ANS : (C)					
22.	The solution of the equation $3p + 5 = 8$ is					
	(A) -1	(B) 1	(C) 3	(D) 5		
ANS :	(B)					
23.	The solution of the equa	ation $4p - 2 = 10$ is				
	(A) 1	(B) 2	(C) 3	(D) 4		
ANS :	(C)					
24.	The solution of the equ	nation $\frac{p}{2} + 1 = 3$ is				
	(A) 1	(B) 2	(C) 3	(D) 4		
ANS :	(D)					
25.	The solution of the equ	ation 3 m + 7=16 is				
	(A) 1	(B) 2	(C) 3	(D) 4		
ANS :	(C)					
26.	The solution of the equation $2p - 1 = 3$ is					
	(A) 1	(B) 2	(C) 3	(D) 4		
ANS :	(B)					
27. The solution of the equation $4x + 5 = 9$ is						
	(A) 1	(B) 2	(C) 3	(D) 4		
ANS :	(A)					
28.	28. The solution of the equation $10 \text{ y} - 20 = 30$ is					
	(A) 1	(B) 2	(C) 3	(D) 5		
ANS :	(D)					
29. The solution of the equation $y - 4 = -1$ is						
	(A) 1	(B) 2	(C) 3	(D) 4		
ANS :	: (C)					

30.	The solution of the equation $y + 2 = -2$ is					
	(A) 2	(B) -2	(C) 4	(D) -4		
ANS :	(D)					
31.	The solution of the equ	ation $10t = -20$ is				
	(A) 1	(B) - 1	(C) 2	(D) -2		
ANS : ((D)					
32.	The solution of the equa	ation $\frac{z}{2} = \frac{3}{4}$ is				
	(A) $\frac{1}{2}$	(B) $\frac{3}{2}$	(C) $\frac{1}{4}$	(D) $\frac{3}{4}$		
ANS :	(B)					
33.	The solution of the equa	ation $2s = 0$ is				
	(A) 2	(B) -2	(C) 0	(D) $\frac{1}{2}$		
ANS : (C)						
34.	34. The solution of the equation $-\frac{p}{7} = 3$ is					
	(A) -3	(B) -7	(C) -21	(D) 21		
ANS :	: (C)					
35.	The solution of the equation $3s + 6 = 0$ is					
	(A) 1	(B) -1	(C) 2	(D) -2		
ANS :	: (D)					
36.	6. The solution of the equation $10p = 10$ is					
	(A) 1	(B) – 1	(C) 10	(D) – 10		
ANS :	(A)					

37.	The solution of the equation $10p + 10 = 110$ is				
	(A) 10	(B) - 10	(C) 100	(D) 110	
ANS :	(A)				
38.	The solution of the equation $12p - 11 = 13$ is				
	(A) 1	(B) 2	(C) 3	(D) 4	
ANS :	(B)				
39.	The solution of the equ	ation $2(m+3) = 8$ is			
	(A) 1	(B) 2	(C) 3	(D) 4	
ANS :	(A)				
40.	The solution of the equa	ation - 2(x + 3) = 4 is			
	(A) -2	(B) -3	(C) -4	(D) -5	
ANS :	(D)				
41.	The solution of the equa	ation $\frac{5}{2}x = 15$ is			
	(A) 2	(B) 4	(C) 6	(D) 10	
ANS :	(C)				
42.	The solution of the equ	ation $4(2 - x) = 4$ is			
	(A) 1	(B) 2	(C) 3	(D) 4	
ANS :	(A)				
43.	The solution of the equation $-4(2 + x) = 4$ is				
	(A) – 1	(B) – 2	(C) – 3	(D) – 4	
ANS :	(C)				
44.	The solution of the equa	ation $-4 = 2 (p - 2)$ is			
	(A) 0	(B) 1	(C) 2	(D) 4	
ANS :	(A)				
45.	The solution of the equation $0 = 4 + 4(m + 1)$ is				

	(A) 1	(B) – 1	(C) 2	(D) – 2		
ANS :	(D)					
46	Write the statements "Seven times a number plus 7 gets you 77" in the form of equations:					
	(A) $7x + 7 = 77$	(B) $7x - 7 = 77$	(C) $7x + 6 = 66$	(D) None of these		
ANS :	(A) $7x + 7 = 77$					
47	Solve the given equatio	n: $3n - 2 = 46$.				
	(A) 16	(B) 12	(C) 14	(D) None of these		
ANS :	(A) 16					
	After adding 2 on both	sides then dividing both	sides by 3.			
48	Which is a solution of t	he equation $4x - 3 = 13$?				
	(A) $x = 5$	(B) $x = 3$	(C) $x = 4$	(D) None of these		
ANS :	(C) $x = 4$					
49	Write an equation for If you take away 6 from 6 times y you get 60.					
	(A) $6y - 6 = 60$	(B) $6y + 6 = 60$	(C) $6y \div 6 = 60$	(D) None of these		
ANS : (A) $6y - 6 = 60$						
	y multiplied by 6 and after subtraction of 6 result becomes 60.					
50	The solution of the equa	ation $m - 7 = 3$ is $m =$				
	(A) 15	(B) 12	(C) 10	(D) None of these		
ANS : (C) 10						
51	Solve the given equatio	$\mathbf{n}:\mathbf{x}+6=2.$				
	(A) 4	(B) 6	(C) -4	(D) None of these		
ANS :	: (C) - 4					
Subtracting 6 from both sides.						
52	By solving the equation	2a - 2 = 20, the value of	f'a' will be			
	(A) 12	(B) 14	(C) 11	(D) 13		
ANS :	(C) 11					

53 Write an equation for three fourth of t is 15.

(A)
$$\frac{3}{4}t = 15$$
 (B) $\frac{3}{4} + t = 15$ (C) $\frac{3}{4} - t = 15$ (D) none of these
ANS : (A) $\frac{3}{4}t = 15$
t when multiplied by 3 and divided by 4 becomes 15.
54 The solution of the equation $4m - 2 = 18$ is $m =$
(A) 4 (B) 6 (C) 5 (D) none of these
ANS : (C) 5
55 Write an equation in statement form : $2m = 7$.
(A) Two times of a number m is 7. (B) Two added to m becomes 7.
(C) Two subtracted from m becomes 7. (D) None of these.
ANS : (A) Two times of a number m is 7.
m when multiplied by 2 becomes equal to 7.
56 Which is a solution of the equation $2x = 12$?
(A) $x = 4$ (B) $x = 6$ (C) $x = 5$ (D) $x = 7$
ANS : (B) $x = 6$
57 Write an equation for 2 subtracted from y is 8.
(A) $y - 2 = 8$ (B) $2y = 8$ (C) $y + 2 = 8$ (D) None of these
ANS: (D) None of these
2 subtracted from y becomes 8.
58 Write the statements "If you take away 6 from 6 time a number, you get 60" in the form of equations:
(A) $6x + 6 = 60$ (B) $6x - 5 = 60$ (C) $6x - 6 = 60$ (D) None of these
ANS : (C) $6x - 6 = 60$

(A) 6 (B) 3 (C) 12 (D) None of these

ANS : (C) 12

Multiplying both sides by 2.

60 The solution of the equation
$$\frac{20m}{3} = 40$$
 is m =
(A) 5 (B) 6 (C) 7 (D) none of these
ANS : (B) 6
61 Write an equation for one fourth of a number x minus 4 gives 4.
(A) $4x + 4 = 4$ (B) $4x - 4 = 4$ (C) $\frac{1}{4}x - 4 = 4$ (D) none of these
ANS : (C) $\frac{1}{4}x - 4 = 4$
x divided by 4 and subtract 4 from it result becomes 4.
62 The solution of the equation $3x + 7 = 25$ is $x =$
(A) 6 (B) 4 (C) 5 (D) None of these
ANS : (A) 6
63 Write an equation in statement form : m minus seven gives 3.
(A) $m + 7 = 3$ (B) $7m = 3$ (C) $m - 7 = 3$ (D) None of these
ANS : (C) $m - 7 = 3$
Seven is subtracted from m gives 3 as result.
64 One - fifth of a number minus 4 gives 3. Find which of the following is the number?
(A) 21 (B) 4 (C) 15 (D) 35
ANS : (D) 35
65 Write an equation for the sum of numbers x and 4 is 9.

(A)
$$4x = 9$$
 (B) $4 - x = 9$ (C) $x + 4 = 9$ (D) None of these
ANS : (C) $x + 4 = 9$
4 added to x becomes 9.
(A) $3x + 4 = 9$
(B) $3x - 11 = 34$ (C) $5x - 7 = 2$ (D)
None of these
ANS : (A) $3x + 11 = 32$
(B) $3x - 11 = 34$ (C) $5x - 7 = 2$ (D)
None of these
ANS : (A) $3x + 11 = 32$
(B) -11 (C) 0 (D) None of these
ANS : (A) 1 (B) -1 (C) 0 (D) None of these
ANS : (A) 1
Adding both side 1 we get 0.
(B) -11 (C) $\frac{3}{11}$ (D) $-\frac{3}{11}$
ANS : (B) $-\frac{1}{11}$ (B) $-\frac{1}{11}$ (C) $\frac{3}{11}$ (D) $-\frac{3}{11}$
ANS : (B) $-\frac{1}{11}$
(A) $\frac{b}{5} = 6$ (B) $5b = 6$ (C) $b + 5 = 6$ (D) None of these
ANS : (A) $\frac{b}{5} = 6$

b divided by 5 becomes 6.

- 70 Write the statements "If you subtract 5 from 6 times a number, you get 7." in the form of e quations:
 - (A) 6x 5 = 7 (B) 3x 11 = 34 (C) 5x 7 = 2 (D) None of

these

ANS : (A) 6x - 5 = 7

71 Write an equation for— If you add 3 to one third of x you get 30.

(A)
$$3x + 3 - 30$$
 (B) $\frac{1}{3}x + 3 = 30$ (C) $3x \div 3 = 30$ (D) None of

these

ANS : (B)
$$\frac{1}{3}x + 3 = 30$$

x divided by 3 and after addition of 3 result becomes 30.

72 Which is a solution of the equation x + 4 = 6?

(A) x = 5 (B) x = 3 (C) x = 2 (D) x = 4

ANS : (C) x = 2

73	Write at least one other form for $5p = 20$.			
	(A) Five times of a number p is 20	(B) 5 added to p is 20		
	(C) 5 divided by p is 20	(D) None of these		

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ANS : (A) Five times of a number p is 20
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20 is product of 5 and p.

- In a coconut grove, (x+2) trees yield 60 coconuts per year, x trees yield 120 coconuts per year and (x-2) trees yield 180 coconuts per year. If the average yield per year per tree is 100, find x.
 - (A) 4 (B) 3 (C) 2 (D) 1

ANS: (A) 4

- 75 Solve the given equation : 31 = 42.
 - (A) 14 (B) 3 (C) 0 (D) None of these

ANS : (A) 14

- 76 Write the statement "p multiplied by 16" in the form of expression.
 - (A) 16p (B) p + 16 (C) p 16 (D) 16 p

ANS : (A) 16p

77 Write an equation for seven times m plus 7 gets you 77.

(A) 7m + 7 = 77(B) 7m - 7 = 77 (C) $7m \div 7 = 77$ (D) None of these

ANS : (A) 7m + 7 = 77

multiplied by 7 and 7'added to it result becomes 77.

78 Write the statements "2 subtracted from a number is 8" in the form of equations:

(A) x - 8 = 2 (B) x - 2 = 8 (C) x - 5 = 8 (D) None of these

ANS : (B) x - 2 = 8

79 Write an equation in statement form : p + 4 = 15.

(A) The sum of numbers p and 4 gives 15.(B) The multiplication of numbers p and 4 gives 15.

(C) The division of numbers p and 4 gives 15. (D) None of these.

ANS : (A) The sum of numbers p and 4 gives 15.

80 Which is a solution of the equation 5x + 2 = 17?

(A) x = 4 (B) x = 2 (C) x = 3 (D) x = 5

ANS : (C) x = 3

81 n + 5 = 19. Find the solution of given equation.

(A) n = 13 (B) n = 14 (C) 15 (D) None of these

ANS : (B) n = 14

5 added to 14 becomes 19.

82 Which of the following equations can be constructed with x = 2?

(A) 3x+4=8 (B) 3x-4=2 (C) 3x+4=2 (D) 3x-4=8

ANS : (B) 3x-4=2

83 Write an equation in statement form : $\frac{p}{2} + 2 = 8$

- (A) p multipled by 2 and plus 2 is 8.
- (B) p added to 2 becomes 8.
- (C) Half a number of p plus 2 is 8.

(D) none of these

ANS : (C) Half a number of p plus 2 is 8.

p divided by 2 and result becomp.8 after adding 2 to it.

84 The solution of the equation 2m = 7 is m =

	(A) 14	(B) $\frac{7}{2}$	(C) $\frac{2}{7}$	(D) None of these
ANS :	(B) $\frac{7}{2}$			
85	Write an equation	on for Ten times a is 70.		
	(A) a +10 = 70	(B) a - 10 = 70	(C) 10a = 70	(D) None of these
ANS :	: (C) 10a = 70			
	a when multipli	ed by 10 becomes 70.		
86	You are decorat the 3 rows on th each row?	ing a gift pack with 15 f he gift pack. Which equa	flowers. You want an equ tion would you use to fin	ual number of flowers in each of nd the number of flowers, r, in
	A) r+3=15	B) 15+r=3	C) 3r=15	D) r=15
ANS :	С			
87	The solution of	the equation 10-3y=1 is	s y=	
	A) 0	B) 1	C) 2	D) 3
ANS :	D			
88	5 less than thric	e a number and add 7. T	he result is 14. The num	ber is
	A) 5	B) 4	C) 6	D) 2
ANS :	В			
89	Which of the gi	ven equation does not ha	ave 4 as the solution?	
	A) p+5=9	B) 14-p=10	C) $\frac{20}{p} = 4$	D) 9p=36
ANS :	С			
90	184 is divided into two parts such that one-third of one part may exceed one -seventh of the other part by 8, then the greater part is			
	A) 72	B) 110	C) 112	D) 114
ANS :	С			

91 If
$$\frac{2x}{1 + \frac{1}{1 + \frac{x}{1 - x}}}$$
 then find the value of x.
A) 1 B) 4/3 C) 1/3 D) 2/3

ANS : D

92 What is the value of p that makes the following expression true? $p-\{-4-(2-8\div 4)\}=8$

A) -12 B) -4 C) 4 D) 12

ANS : C

Solution :

We have,
$$p - \{-4 - (2 - 8 + 4)\} = 8 \Rightarrow p - \{-4 - (2 - 2)\} = 8 \Rightarrow p - (-4 - 0) = 8 \Rightarrow p + 4 = 8 \Rightarrow p = 4$$

93 If two third of a number, half of the same number and one-seventh of same number is added to itself, the result is 37. The number is _____.

A)
$$14\frac{2}{97}$$
 B) $16\frac{2}{97}$ C) $18\frac{2}{97}$ D) $15\frac{2}{97}$

ANS : B

94If two supplementary angles differ by
$$44^{\circ}$$
, then one of the angles is _____.A) 102° B) 65° C) 112° D) 72°

ANS : C

95 The value of x in
$$\frac{2}{4}(7x-1)-(2x-\frac{1-x}{2})=x+\frac{3}{2}is$$
 _____.
A) 2 B) 3 C) 1 D) 0

ANS : C

96 If
$$\frac{2}{5}(5x+1) + \frac{3}{5} = 1$$
, then what is the value of x?
A) $-\frac{1}{5}$ B) 1 C) 0 D) $\frac{1}{5}$

ANS : C

97	If $\frac{9}{5}$ of a number is 45,	what is $\frac{1}{5}$ of the same number of the same n	umber?	
	A) 5	B) 25	C) 30	D) 81
ANS	: A			
98	Solve for x: $\frac{6x-2}{5} + \frac{3}{5}$	$\frac{x+5}{18} = \frac{1}{3}$.		
	A) $\frac{1}{3}$	B) $\frac{2}{3}$	C) $\frac{3}{5}$	D) $\frac{8}{3}$
ANS	: A			
99	Which of the following statement do not hold in solving the equation $15+3x=3$?			
	A) 3x=3-15	B) 15–3=–3x	C) $15 + \frac{3x}{3} = 3$	D) $\frac{15}{3} + \frac{3x}{3} = \frac{3}{3}$

ANS : C

100 Form an equation of the form ax+b=c, where a, b and c are constants, such that the solution of the equation is x = 4.

A) 2x+5=15 B) 7x+2=10 C) 5x+4=16 D) 3x+4=16

ANS : D