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Class: 7
Subject: Mathematics
Topic: Simple Equations
No. of Questions: 20
Duration: 60 Min
Maximum Marks: 60

1. Write the statements "The sum of three times x and 11 is 32" in the form of equations:
   A. 3x + 11 = 32
   B. 3x – 11 = 34
   C. None of these
   D. 5x – 7 = 2
   Sol: A

2. Write the statements "If you subtract 5 from 6 times a number, you get 7."in the form of equations:
   A. None of these
   B. 3x – 11 = 34
   C. 6x – 5 = 7
   D. 5x – 7 = 2
   Sol: C

3. Write the statements "one third of a number plus 5 is 8 "in the form of equations:
   A. $\frac{1}{3}$ m + 8 = 5
   B. 3 m + 8 = 5
   C. $\frac{1}{3}$ m + 5= 8
   D. 3 m + 5= 8
   Sol: C

4. Which is a solution of the equation 2x = 12?
   A. x = 7
   B. x = 6
   C. x = 4
   D. x = 5
   Sol: B

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x = 12/2

5. Which is a solution of the equation x + 4 = 6?
   A. x = 2
   B. x = 4
   C. x = 5
   D. x = 3

   Sol: A

   X = 6 - 4

6. Write the statements “The sum of numbers x and 4 is 9”in the form of equations:
   A. x + 5 = 9
   B. x + 9 = 4
   C. None of these
   D. x + 4 = 9

   Sol: D

7. Find a number, such that one fourth of the number is 3 more than 7.
   A. 30
   B. 40
   C. 16
   D. 20

   Sol: B

   (Let no be x, so

   x/4 = 7 + 3, x = 40)

8. What is that number one third of which added to 5 gives 8?
   A. None of these
   B. 8
   C. 10
   D. 9

   Sol: D

   (Let no be x, so x/3 + 5 = 8, x = 9)

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9. Find a number such that one fifth of it minus 4 gives 3.
   A. 25
   B. 45
   C. 35
   D. None of these

   Sol: c

   Let the no be x, x/5 – 4 = 3

   X = 35

10. The solution of the equation 4 (x+3) = 18 is x =
   A. $\frac{3}{2}$
   B. $\frac{3}{10}$
   C. $\frac{7}{10}$
   D. None of these

   Sol: A

   4x + 12 = 18; or, 4x = 18- 12; or, x = 3/2

11. Solve: x – 5 = 9
   A. x = 14
   B. None of these
   C. x = 12
   D. x = 4

   Sol: A

   x = 9 + 5

12. Solve: 3n + 7 = 1
   A. n = 2
   B. n = 3
   C. n = -2
   D. None of these

   Sol: C

   n = (-6)/2

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13. Write equations for: 'y is multiplied by – 8 and then 5 is added to the result to get 29.'

    A. None of these
    B. -8y + 5 = 29
    C. 8y + 5 = 29
    D. -8y – 5 = 29

    Sol: B

14. The length of a rectangular hall is 4 meters less than 3 times the breadth of the hall. What is the length, if the breadth is b meters?

    A. 4b – 3
    B. None of these
    C. 3b + 4
    D. 3b – 4

    Sol: D

    The breadth is b. Three times b is 3b and upon subtracting 4, length becomes 3b-4

15. Solve: $\frac{-p}{3}=5$

    A. P = -15
    B. P = -4
    C. P = -5
    D. P = 8

    Sol: A

16. Irfan says that he has 7 marbles more than five times the marbles Parmit has. Irfan has 37 marbles. (Take m to be the number of Parmit's marbles.) Set up an equation.

    A. m + 7 = 37
    B. 5m + 7 = 37
    C. 5m = 37
    D. m + 5 = 37

    Sol: B

    Parmits marbles is m. Five times Parmit's marble is 5m, 7 more will make it 5m+7 and this equals 37)

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17. The expressions are formed by performing operations like addition, subtraction, multiplication and division on the _____.

    A. expressions
    B. None of these
    C. variables
    D. terms

    Sol: C

18. In Equation 3x + 4 = 25, the _____ is (3x + 4).

    A. RHS
    B. equal
    C. None of these
    D. LHS

    Sol: D (Because the expression written is on left hand side)

19. If we multiply both sides of the equation by the same number, the balance is _____.

    A. None of these
    B. disturbed
    C. undisturbed
    D. equal

    Sol: C (If you do same operation on both sides than the equation remains the same)

20. Solve: 3 – 2(2 – y) = 7

    A. y = 24
    B. y = 4
    C. None of these
    D. y = 2

    Sol: B

    3 – 4 + 2y = 7; or, 2y = 8; or, y = 4