MATHS

BOOKS - SUBHASH PUBLICATION

SIMPLE EQUATIONS

Example

1. Complete the last column of the table:

S. No.	Equation	Value	Say, whether the Equation is Satisfied. (Yes/ No)
(i)	$x+3=0$	$x=3$	
(ii)	$x+3=0$	$x=0$	
(iii)	$x+3=0$	$x=-3$	
(iv)	$x-7=1$	$x=7$	
(v)	$x-7=1$	$x=8$	
(vi)	$5x=25$	$x=0$	
(vii)	$5x=25$	$x=5$	
(viii)	$5x=25$	$x=-5$	
(ix)	$\frac{m}{3}=2$	$m=-6$	
(x)	$\frac{m}{3}=2$	$m=0$	
(xi)	$\frac{m}{3}=2$	$m=6$	

SUPER

COMPANION ALL IN ONE-7

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2. Check whether the value given in the breackets is a solution to the given equation or not: n + 5=19(n=1)

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3. Check whether the value given in the breackets is a solution to the given equation or not: 7n + 5 = 19(n=-2)

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4. Check whether the value given in the breackets is a solution to the given equation or not: $4p - 5 = 13(P=1)$

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5. Check whether the value given in the breackets is a solution to the given equation or not: $4p - 3 = 13(P = -4)$

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6. Check whether the value given in the breackets is a solution to the given equation or not: 4p - 3 = 13 (P = 0)

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7. Solve the following equations by trial and error method: 5p+2=17

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8. Solve the following equations by trial and error method: 3m-14=4

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9. Write equations for the following statements: The sum of numbers X and 4 is 9.

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10. Write equations for the following statements: 2 subtracted from y is 8.

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11. Write equations for the following statements: The number b divided by 5 gives 6.

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12. Write equations for the following statements: Three-fourth of t is 15.

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13. Write equations for the following statements: Seven times m plus 7 gets you 77.

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14. Write equation for the following statement: One-fourth of a number x minus 4 gives 4.

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15. Write equations for the following statements: If you take away 6 from 6 times y, you get 60.

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16. Write equations for the following statements: If you add 3 to one -third of z, you get 30.

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17. Write the following equations in statement forms: P+4=15

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18. Write the following equations in statement forms: $m+7=3$

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19. Write the following equations in statement forms: $2m=7$

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20. Write the following equation in statement form: $\frac{m}{5} = 3$

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21. Write the following equation in statement form: $3\frac{m}{5} = 6$

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22. Write the following equations in statement forms: 3P+4=25

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23. Write the following equations in statement forms: 4P-2=18

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24. Write the following equation in statement form: P/2+2=8

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25. Set up an equation in the following cases: 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).

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26. Set up an equation in the following cases: 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).

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27. Set up an equation in the following cases: The teacher tells the class that the highest marks obtained by a student in her class is

twice the lowest marks plus 7. The highest score is 87. (Take the lowest score to be I).

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28. Set up an equation in the following cases: In an isosceles traingle, the vertex angle is twice either base angel. (Let the base angle be b in degrees. Remember that the sum of angles of a traingle is 180 degrees.

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29. Give first the step you will use to separate the variable and then solve the equation: $x - 1 = 0$

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30. Give first the step you will use to separate the variable and then solve the equation: $x + 1 = 0$

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31. Give first the step you will use to separate the variable and then solve the equation: $x - 1 = 5$

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32. Give first the step you will use to separate the variable and then solve the equation: $x + 6 = 2$

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33. Give first the step you will use to separate the variable and then solve the equation: $y - 4 = -7$

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34. Give first the step you will use to separate the variable and then solve the equation: $y - 4 = 4$

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35. Give first the step you will use to separate the variable and then solve the equation: $y + 4 = 4$

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36. Give first the step you will use to separate the variable and then solve the equation: $y + 4 = -4$

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37. Give first the steps you will use to separate the variable and then solve the equation: 3I=42

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38. Give first the steps you will use to separate the variable and then solve the equation: $\frac{b}{2} = 6$

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39. Give first the steps you will use to separate the variable and then solve the equation: $\frac{p}{7} = 4$

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40. Give first the steps you will use to separate the variable and then solve the equation: $4x = 25$

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41. Give first the steps you will use to separate the variable and then solve the equation: $8y = 36$

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42. Give first the steps you will use to separate the variable and then solve the equation: $\frac{z}{3} = \frac{5}{4}$

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43. Give first the steps you will use to separate the variable and then solve the equation: $\frac{a}{5} = \frac{7}{15}$

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44. Give first the steps you will use to separate the variable and then solve the equation: $20t = -10$

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45. Give the steps you willuse to separate the variable and then solve the equation: 3n-2=46.

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46. Give the steps you willuse to separate the variable and then solve the equation: 5m+7=17.

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47. Give the steps you willuse to separate the variable and then solve the equation: $\frac{2}{3}P = 40.$

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48. Give the steps you willuse to separate the variable and then solve the equation: $3\frac{P}{10} = 6.$

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49. Solve the following equations: 10P=100

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50. Solve the following equations: 10P+10=100

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51. Solve the following equations: P/4=5

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52. Solve the following equations: $3P/4=6$

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53. Solve the following equations: $3S=-9$

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54. Solve the following equations: $3S+12=0$

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55. Solve the following equations: 3S=0

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56. Solve the following equations: 3S=0: 2q=6

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57. Solve the following equations: 2q-6=0

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58. Solve the following equations: 2q+6=0

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59. Solve the following equations: 2q+6=12

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60. Solve the following questions:

$\frac{5}{2} \times = -5$

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61. Solve the following questions:

$5t + 28 = -10$

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62. Solve the following questions:

$\frac{a}{5} + 3 = -2$

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63. Solve the following questions: $\frac{q}{4} + 7 = 5$

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64. Solve the following questions:

$\frac{5}{2} \times = -5$

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65. Solve the following questions:

$\frac{5}{2} \times x = \frac{25}{4}$

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66. Solve the following questions:

$7m + \frac{19}{2} = 13$

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67. Solve the following questions:

$6z + 10 = -2$

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68. Solve the following questions: $\frac{3I}{2} = \frac{2}{3}$

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69. Solve the following questions: $\frac{2b}{2} - 5 = 3$

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70. Solve the following equations: 2(x+4)=12

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71. Solve the following equation: $3(n-5)=21$

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72. Solve the following equations: $3(n-5)=-21$

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73. Solve the following equations: $-4(2+x)=8$

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74. Solve the following equations: $4(2-x)=8$

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75. Solve the following eqations: $4=5(P-2)$

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76. Sovle the following eqations: $-4=5(P-2)$

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77. Solve the following eqations: 16=4+3(P+2)

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78. Solve the following eqations: 4+5(P-1)=34

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79. Sovle the following eqations: 0=16+4(m-6)

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80. Constuct 3 equation with x=2.

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81. Construct 3 equations with x=-2.

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82. Set up equation and solve to find the unknown numbers in the following case: Add 4 eight time a number, you get 60.

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83. Set up equations and solve them to find the unknown numbers in the following cases: One-fifth of a number minus 4 gives 3.

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84. Set up equations and solve them to find the unknown numbers in the following cases: If I take three-fourths of a number and add 3 to it. I get 21.

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85. Set up equations and solve them to find the unknown numbers in the following cases: When I subtracted 11 from twice a number the result was 15.

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86. Set up equations and solve them to find the unknown numbers in the following cases:

Munna subtracts thrice the number of notebooks he has from 50, he finds the result to be 8.

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87. Set up equations and solve them to find the unknown numbers in the following cases: Ibenhal thinks of a number. If she adds 19 to it and divides the sum by 5, she will get 8.

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88. Set up equations and solve them to find the unknown numbers in the following cases: Anwar thinks of a number. If he takes away 7 from $\frac{5}{2}$ of the number, the result is 23.

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89. Set up an equation in the following cases: The teacher tells the class that the highest marks obtained by a student in her class is twice the lowest marks plus 7. The highest score is 87. (Take the lowest score to be I).

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90. Solve the following: In a isosceles traingle, the base angles are equal. The vertex angle is 40^o. What are the base angles of the traingle? (Remember, the sum of three angles of a traingel is 180^o).

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91. Solve the following : Sachin scored twice as many runs as Rahul. Together their runs fell two short of a doubel century. How many runs did each one score?

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92. Set up an equation in the following cases: 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).

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93. Set up an equation in the following cases: 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).

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94. Solve the following: People of Sundargram planted trees in the village garden. Some of the trees were fruit trees. The number of non-fruit trees were two more than three times the number of fruit trees. What whas the number of fruit trees planted if the number of non-fruit trees planed was 77?

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95. Solve the following: I am a number, Tell my identity! Take me seven times over And add a fifty! To reach a triple century You still need forty!.

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