MATHS

BOOKS - SRS PUBLICATION

SIMPLE EQUATIONS

Question Bank

1. Write simple equation for the following verbal statement

The sum of five times of x and 3 is 28 .

2. Write simple equation for the following verbal statement

Taking away 7 from p gives 21

3. Write simple equation for the following verbal statement

if you add one third to m then you get 25.

4. Write simple equation for the following verbal statement

some of angles x,(x+20) together is a straight angle

5. Write simple equation for the following verbal statement

perimeter of rectangle whose length is 2 more than its width is 16 cm.

▶ **Watch Video Solution**

6. Write the following equation in the statement from

x+4=9

▶ **Watch Video Solution**

7. Write the following equation in the statement from

2y=15

▶ **Watch Video Solution**

8. Write the following equation in the statement from

3m-13=25

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9. Write the following equation in the statement from

$$\frac{n}{4}=5$$

10. Write the equation of the following mathematical statements

A number x decreased by 5 is 14

11. Write the equation of the following mathematical statements

Eight times of y. plus 3 is -5

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12. Write the equation of the following mathematical statements

If you add one fourth of z to 3 you get 7

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13. Write the equation of the following mathematical statements

If you take away 5 from 3 times of m you get 11

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14. Write the equation of the following mathematical statements

Sum of angles 2x,(x-30) is a right angle.

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15. Write the equation of the following mathematical statements

The perimeter of a square of side 'a ' is 14 m

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16. Write the following equations in statement from.

m-5=12

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17. Write the following equations in statement from.

$$\frac{a}{3} = 4$$

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18. Write the following equations in statement from.

4x+7=15

> ▶ Watch Video Solution

19. Write the following equations in statement from.

2-3y=11

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20. Solve the following equations using trial and error method.

3x-7=5

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21. Solve the following equations using trial and error method.

5-y=-1

22. Give the steps you will use to seperate the variables and then solve the equations

5m/3=10

23. Give the steps you will use to seperate the variables and then solve the equations

$4n-23=13$

24. Give the steps you will use to seperate the variables and then solve the equations

$-5+3x=16$

25. Give the steps you will use to seperate the variables and then solve the equations

$2(y-1)=8$

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26. Solve the following simple equations and check the result.

$3x=18$

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27. Solve the following simple equations and check the result.

$b/7=-2$

▶ **Watch Video Solution**

28. Solve the following simple equations and check the result.

$-2x=-10$

▶ **Watch Video Solution**

29. Solve the following simple equations and check the result.

$10+6a=40$

> ▶ **Watch Video Solution**

30. Solve the following simple equations and check the result.

$-7m=21$

> ▶ **Watch Video Solution**

31. Solve the following simple equations and check the result.

$4p+7=-21$

32. Solve the following simple equations and check the result.

$3x-1/3=5$

33. Solve the following simple equations and check the result.

18-7n=-3

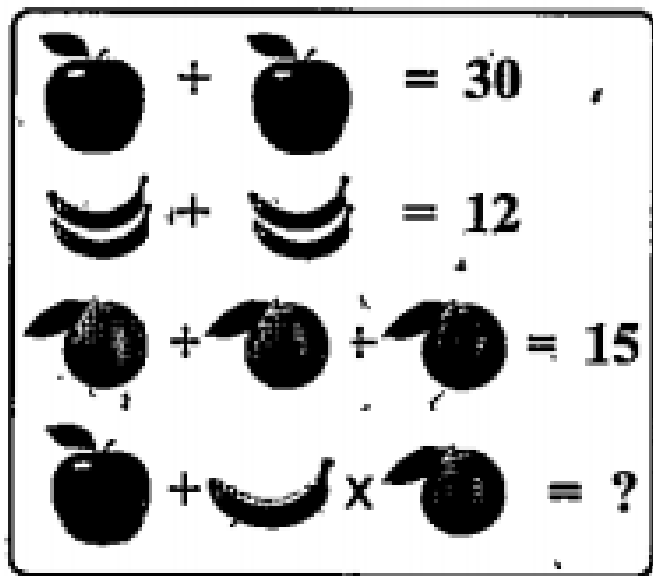**34.** Solve the following simple equations and check the result.

3(k+4)=21

35. Solve the following simple equations and check the result.

$9(a+1)+2=11$

36. Solve the puzzle using simple equations

37. Find three equivalent equations having the same solution x=-1

38. Show the following equations and check the result.

5x-17=18

39. Show the following equations and check the result.

29-7y=1

40. Show the following equations and check the result.

a-2.3=1.5

41. Show the following equations and check the result.

$$b + (3)\frac{1}{2} = \frac{7}{4}$$

42. Show the following equations and check the result.

7p/10+9=15

43. Show the following equations and check the result.

6(q-5)=42

44. Show the following equations and check the result.

-3(m+5)+1=13

45. Show the following equations and check the result.

3(p-7)-4=5

46. Show the following equations and check the result.

5(q-3)-3(q-2)=0

47. Show the following equations and check the result.

0.4x-0.3x-1.2=0.6

48. Show the following equations and check the result.

4(3y+4)=7.6

49. Show the following equations and check the result.

20-(2r-5)=25

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50. Show the following equations and check the result.

3(5-t)-2(t-2)=-1

▶ **Watch Video Solution**

51. Show the following equations and check the result.

3(2k+1)-2(k-5)-5(5-2k)=16

52. Show the following equations and check the result.

3m/4-5m-3/4=12

53. Show the following equations and check the result.

4n/5+n/4-n/2=11/10

54. Show the following equations and check the result.

x/2-4/5+x/5+3x/10=1/5

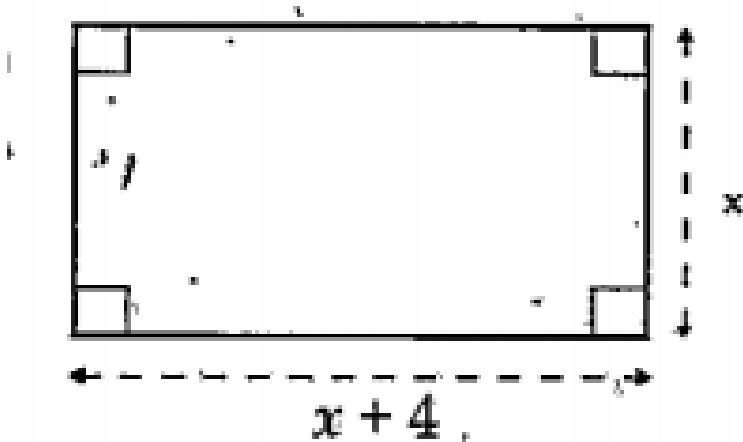**55.** Write any three equivalent equation having the solution x=2

56. Write any three equivalent equation having the solution a=-5

57. Find the value of variable x from the below

diagram

$$x + 4$$

perimeter = 36 cm

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58. The sum of twice a number and 4 is 80,find the number.

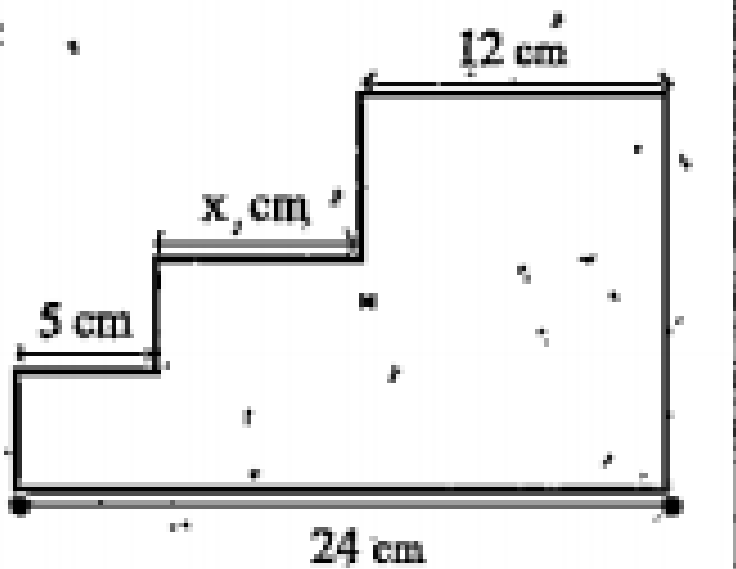**59.** The difference between a number and one - fourth of itself is 24, find the number.

60. Find the value of x from the adjecent diagram

61. To convert temperature fro fahrenhite to centigrade we us the formula $(F - 32) = \dfrac{9}{5} \times C$ If $C = -40°C$ then find F

62. Rahim has rs x from which he spends rs 6 if twice of the money left with him is rs 86 then find x

63. The difference between two numbers is 7 .six times the smaller plus the larger is 77.find the numbers

64. The sum of three consecutive even numbers is 54. Find the numbers.

65. In a class of 48 students the number of girls is one third the number of boys.Find the number of girls and boys in the class.

66. The present ages of mary and joseph are in the ratio 5:3 . after 3 years sum of their ages is 38.find their present ages.

67. A sum of₹ 500 is in the form of denominations of ₹5 and ₹10. If the to tal number of notes is 90 find the num- ber of notes of each denomination: (Hint: Let the number of 5 rupee notes be 'x', then number of 10 rupee notes = 90 - x)

68. John and ismail donated some money to the relief fund. the amount paid by ismail is

rs85 more than twice that of john. if the total money paid by them is rs4000, then find the amount of money donated by john.

69. Length of a rectangle is 4m less than 3 times its breath if the perimeter of rectangle is 32 m. then find its length and breadth.

70. A bag contains 5 red balls and some blue balls, If the probability of drawing a blue ball is double that of a red ball, Find the number of blue balls in the bag.

71. Which of the following numbers satisfy the equation

-6+m=-10

A. 2

B. 4

C. (-4)

D. (-2)

Answer: C

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72. The equation having -2 as solution is

A. x+2=5

B. 7+3x=1

C. 2x+3=7

D. 2(x+1)=4

Answer: B

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73. If a and b are positive integers then the solution of the equation of the equation ax=b willl always be a

A. positive number

B. negative number

C. 1

D. 0

Answer: A

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74. The equation which can 't be solved in integr is

A. 2(x-3)=10

B. x/3=5

C. 5-3m=1

D. 2k+1=1

Answer: C

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75. Which of the following is not allowed in a given equation?

A. Adding the same number to both sides of the equation

B. Subtracting the same number from both sides of the equation

C. Multiplying both sides of the equation by the same non zero number

D. Dividing both sides of the equation by the same number

Answer: D

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76. If 2y-1=5 then the value of 5y+3 is _____ .

77. Changing of term from one side of equation to other side is called ____ .

78. If the sum of two numbers is 60 one is thrice the other then the equation formed is ____

79. if x is a natural number then the solution of x-8 =-8 is ____

80. 13 subtracted from twice of a number gives 3 then the number _____

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81. Check whether the value given in the brackets is a solution to the given equation or not

2n+5=19 : n=7

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82. Check whether the value given in the brackets is a solution to the given equation or not

3m/5-7=1 :(m=10)

83. Solve 5-2k=-3 using trial and error method

84. write the following equations in mathematical statement from

2m+7=21

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85. write the following equations in mathematical statement from

n/7=4

▶ **Watch Video Solution**

86. Give the steps you will use to seperate the variables and then solve the equation

7(x-3)=28

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87. Give the steps you will use to seperate the variables and then solve the equation

8y-9=15

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88. Solve the following equations and check the result (method of transposition)

$9(a+3)+7=22$

89. Solve the following equations and check the result (method of transposition)

$25=18-7(b-6)$

90. Six times a number is 72.find the number.

91. Three fourth of a number is more than one fourth of same number by 2. find the number.

92. In the adjacent figure the perimeter of the square is 40 m .then find x.
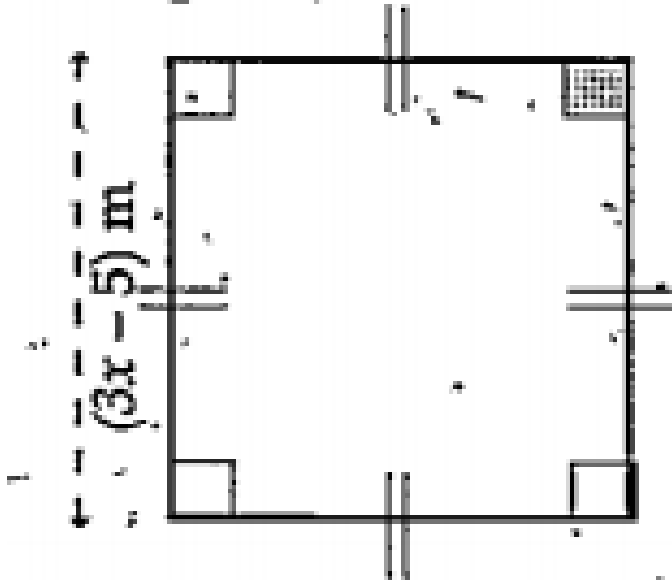
93. Jeevan is 3 years younger than his brother sasi. if the sum of their present age is 19 years whar are their present ages ?

94. The length of a rectangle is 20 m more than its width.if the perimeter of the rectangle is 100m then find the length and breadth of rectangle.

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95. In a family the consumption of rice is 4 times that of wheat. the total consumption of the two cereals in a month is 30 kg .find the

quantities of rice and wheat consumed in the family,

96. The teacher tells the students in class that the highest marks obtained by a student in the class is 7 more than twice the lowest marks. if the highest mark is 93 then what is the lowest mark ?

97. A man travelled $\dfrac{4}{5}$ of his journey by train $\dfrac{1}{7}$ km by bus and the remaining 16 km by auto . what is the length of his total journey ?

98. In the questions given below equations have become wrong due to wrong order of signs $(+, -, \times, \div, =)$ choose the correct order of signs from the given alternatives given under each questions so

that the equation becomes right

$$7 + 2 = 2 \times 3$$

A. $=$, $\times$, $+$

B. $+$, $+$, $\times$

C. $=$, $+$ $\div$

D. $+$, $\times$, $=$

Answer: A

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99. In the questions given below equations have become wrong due to wrong order of signs $(+, -, \times, \div, =)$ choose the correct order of signs from the given alternatives given under each questions so that the equation becomes right

$7 + 2 \times 6 = 20$

    A. $=, \times, +$

    B. $+, +, \times$

    C. $=, +\div$

D. $+$, $\times$, $=$

Answer: C

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100. In the questions given below equations have become wrong due to wrong order of signs $(+, -, \times, \div, =)$ choose the correct order of signs from the given alternatives given under each questions so correct order of signs from the given alternatives given under each questions so

that the equation becomes right

$$15 \div 5 = 2 \times 1$$

A. $+$, $\times$, $=$

B. $\div$, $=$, $\times$

C. $+$, $-$, $\div$

D. `x,= ,+

Answer: D

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101. In the questions given below equations have become wrong due to wrong order of signs $(+, -, \times, \div, =)$ choose the correct order of signs from the given alternatives given under each questions so that the equation becomes right

6=3-6-12

    A. $=, \times, \div$

    B. $\div, =, \times$

    C. $+ = -$

D. $\div$, $\times$, $=$

Answer: D

102. In the questions given below equations have become wrong due to wrong order of signs $(+, -, \times, \div, =)$ choose the correct order of signs from the given alternatives given under each questions so alternatives given under each questions so

that the equation becomes right

$$3 + 1 \div 4 = 16$$

A. $-$, $=$, $\times$

B. $\times$, $+$, $=$

C. $+$, $\times$, $=$

D. $=$, $\times$, $+$

Answer: B

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103. In the questions given below equations have become wrong due to wrong order of signs $(+ , - , \times , \div , =)$ choose the correct order of signs from the given alternatives given under each questions so that the equation becomes right

$$8 \div 4 = 2 + 1$$

   A. $\div$, $=$, $+$

   B. $\div$, $=$, $\times$

   C. $\div$, $\times$, $=$

D. $=$, $\div$, $\times$

Answer: B

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104. In the questions given below equations have become wrong due to wrong order of signs $(+ , - , \times , \div , =)$ choose the correct order of signs from the given alternatives given under each questions so correct order of signs from the given alternatives given under each questions so

that the equation becomes right

$$2 \times 2 + 2 = 2$$

A. $\times$, $\div$, $=$

B. $\times$, $=$, $\div$

C. $+$, $\times$, $=$

D. $\times$, $+$, $=$

Answer: A

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105. In the questions given below equations have become wrong due to wrong order of signs $(+, -, \times, \div, =)$ choose the correct order of signs from the given alternatives given under each questions so that the equation becomes right

5-6+8=3

    A. $+, -, =$

    B. $\times \div =$

    C. $+, \times, =$

D. $\times$, $+$, $=$

Answer: A

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106. In the questions given below equations have become wrong due to wrong order of signs $(+ , - , \times , \div , =)$ choose the correct order of signs from the given alternatives given under each questions so

that the equation becomes right

$$8 \div 2 = 2 \times 8$$

A. $+ \; - \; =$

B. $\div \; , \; = \; , \; \times$

C. $+ \; = \; -$

D. $\times \; , \; = \; , \; \div$

Answer: A

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107. In the questions given below equations have become wrong due to wrong order of signs $(+, -, \times, \div, =)$ choose the correct order of signs from the given alternatives given under each questions so that the equation becomes right

3=3-7+0

A. $-$, $=$, $\times$

B. $\times$, $+$, $=$

C. $+$, $\times$, $=$

D. $=$, $\times$, $+$

Answer: A

108. Find the value of x if $\dfrac{x}{2} - 1 = \dfrac{x}{3} + 4$

A. 20

B. 10

C. 30

D. 40

Answer: C

109. solve 6x+18=8x+12

A. x=1

B. x=2

C. x=3

D. x=4

Answer: C

110. Solve 5(x-3)=30

    A. x=6

    B. x=3

    C. x=12

    D. x=9

Answer: D

111. What is the value of p in the given equation 8(2p-5)-6(3p-7)=1?

A. 2

B. 3

C. $\left(\dfrac{1}{2}\right)$

D. $\left(\dfrac{1}{3}\right)$

Answer: C

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112. Find the variable value y in the equation

$0.6y+0.8=0.56y+2.32$.

A. 34

B. 36

C. 38

D. 40

Answer: C

113. If $-\dfrac{9}{z} = -\dfrac{11}{5}$ then (-z) =_____

A. 45/11

B. 11/45

C. -45/11

D. -11/45

Answer: D

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114. 3(x-3)=5(2x+1),then x=____

A. 1

B. -1

C. 2

D. -2

Answer: C

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115. The solution to the equation 8-5(x-5)=2x-6

is

A. 44387

B. 2

C. 39/7

D. 6

Answer: C

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116. For what value of 'x' makes the equation true? $\frac{x}{9}+6=8$

A. 2

B. 66

C. 18

D. 126

Answer: C

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117. If x+4=9,then the value of x=_____

A. 4

B. 9

C. 5

D. 13

Answer: C

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118. If 2x+5=k,then x=_____

A. K-5

B. $\dfrac{K-5}{2}$

C. $\dfrac{K + 5}{2}$

D. $\dfrac{K}{2 - 5}$

Answer: B

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119. The value of 'x' which satisfies equation is

5x-7=8

A. 2

B. 3

C. 4

D. -3

Answer: B

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120. If 3x=20,then x=_____

A. 17

B. -0.35

C. 20/3

D. 6

Answer: C

121. What are the two steps involved in solving

the equation 15x+5=26?

A. Adding 4 on both sides and then

multiplyaing both sides by 15

B. Adding 4 on the LHS and dividing by 15 on the RHS

C. Subtracting 4 from both the sides and then dividing bothe sides by 15 in the RHS

D. Substacting 4 from both the sides and then dividing both sides by 15

Answer: D

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122. Which of the following equation can be constructed with x=2?

A. 3x-4=2

B. 3x+4=2

C. 3x-4=8

D. 3x+4=8

Answer: A

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123. On transposing terms from one side of the equation to the other which of these changes takes place ?

A. Addition becomes subtraction

B. Subtraction becomes addition

C. Multiplication becomes division

D. Above all

Answer: D

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124. $a \neq b$ but $ac = bc$, then guess $c = $?

A. 1

B. b

C. a

D. 0

Answer: D

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125. 0.5m=0.65,then m=

A. 3

B. 30

C. 1.3

D. 13

Answer: C

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126. Which of the following equation can be constructed with x=5?

A. 2x-4=1

B. 3x-5=10

C. 3x-4=9

D. 12x-5=25

Answer: B

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127. A number when multiplied by 5 gives by 80

what is that number?

A. 16

B. 17

C. 18

D. 20

Answer: A

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128. Twice a number when increased by 4 gives 48. what is that number?

A. 11

B. 22

C. 33

D. 40

Answer: B

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129. On adding 6 to the thrice of a number gives 30. what is the 1/4 th of that number?

A. 1

B. 2

C. 3

D. 4

Answer: B

130. 3 is subtracted from 3/2 of a number results in 12. what is that number?

A. 14

B. 18

C. 10

D. 16

Answer: C

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131. The sum of three times of a number and 11

is 32 find the number

A. 7

B. 6

C. 21

D. 10

Answer: A

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132. Write the statement for the sum of three times of x and 11 is 32 in the form of equation.

A. 3X+11=32

B. 3X-11=-34

C. 5X-7=2

D. None

Answer: A

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133. Write the statement for "if you subtract 5 from 6 times a number we get seven in the from of equation.

A. 6X-5=7

B. 3X-11=34

C. 5X-7=2

D. None

Answer: A

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134. Find a number which when multiplied by 7 and then reduced by 3 is equal to 53.

A. 7

B. 6

C. 8

D. 10

Answer: C

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135. Total number of boys and girls in a class is 52. If the number of girls is 10 more than that of boys, find the number of boys.

A. 2x/10=52

B. 2x-10=52

C. x+10=52

D. 2x+10=52

Answer: D

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136. If we add 7 to twice a number, we get 49.

Find the number.

A. 2x-7=49

B. 2x+7=49

C. (-2x-49=7)

D. 2x+49=7

Answer: B

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137. The equation 2x=6 can further be expressed as

A. x=6-2

B. x=6x2

C. x=6/2

D. x=6+2

Answer: C

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138. Write the information given in the adjacent figure in the form of an equation

A. x=3

B. x-3=10

C. x+3=10

D. x=10/3

Answer: C

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139. The sum of three consecutive integers is 75,which is the largest among them?

A. 25

B. 23

C. 24

D. 26

Answer: D

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140. The length of the sides of a triangle are

(a+1)cm,(2a-1)cm,(3a+2)cm and for what value

of "a" is the perimeter of the triangle is 26cm

A. 2

B. 3

C. 4

D. 6

Answer: C

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141. The sum of the ages of three persons is 40

years . What will be the sum of their ages after

3 years

A. 49

B. 39

C. 59

D. 69

Answer: A

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142. 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 mark is 87. What is the lowest mark?

A. 20

B. 80

C. 40

D. 30

Answer: C

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143. If k-7=16 then the value of 8k+72=

A. 256

B. 372

C. 252

D. 200

Answer: A

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144. Two supplementary angles differ by 20°

What is the measure of smaller angle?

A. 40°

B. 80°

C. 100°

D. 30°

Answer: B

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145. The length of a rectangle is two times of its breadth. Its perimeter is 60m. What is the length?

    A. 10m

    B. 15m

    C. 20m

    D. 24m

Answer: C

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146. Two complementary angles are differ by $20°$. What is the measure of larger angle?

A. $35°$

B. $45°$

C. $55°$

D. $65°$

Answer: C

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147. Sum of two numbers is 21.One of the number is twice the other ,then those numbers are ......

A. 3,18

B. 7,14

C. 13,7

D. 5,16

Answer: A

148. If k+7=16 then the value of 8k-72 is

A. 0

B. 1

C. 112

D. 56

Answer: A

149. Express the diagram in the form of an equation.
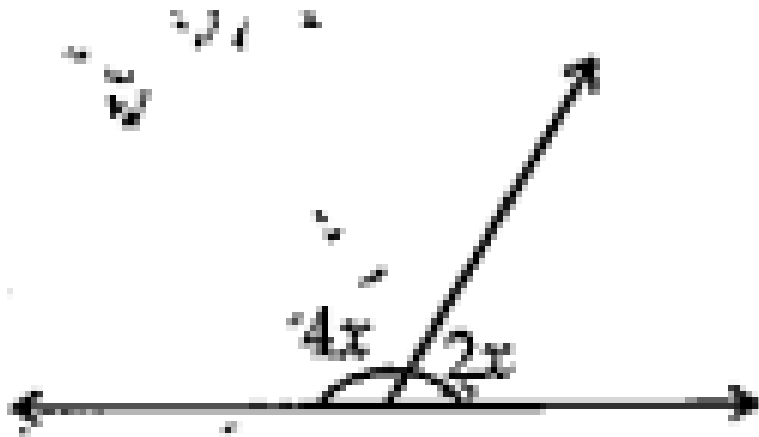
A. 4x+2x=90°

B. 4x+2x=180°

C. 4x+2x=270°

D. 4x+2x=360°

Answer: B

150. What is the relation betwwen lenght and breadth of a recangle?

A. (A) length is double that of breadth

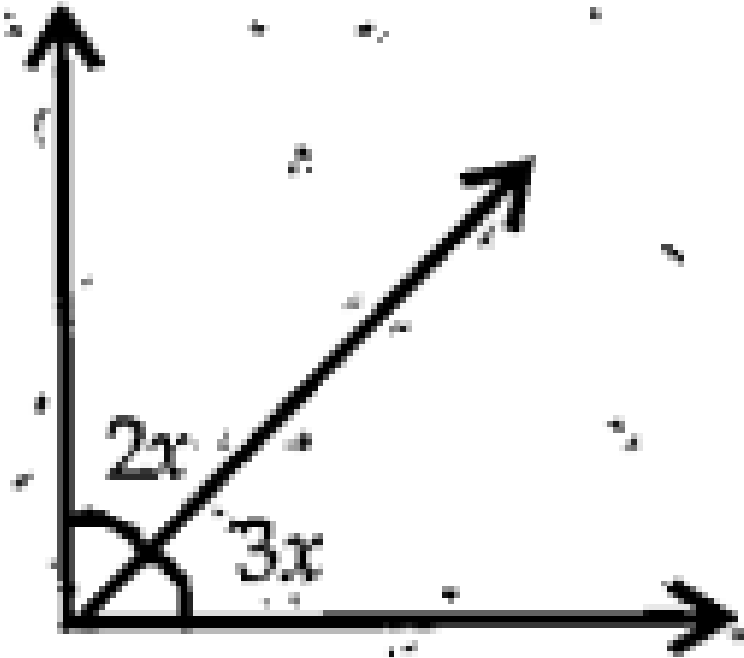B. (B) length is triple thar of breadth

C. (C) breadth is half of length

D. (D) A and C

Answer: D

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151. Write the equation for the adjacent figure.

A. 3x-2x=180°

B. 3x+2x=180°

C. 3x-2x=90°

D. $3x+2x=90°$

Answer: D

The symbol to be placed in the box given below, for the value x = 4,

152. ⬜

$x + 5$ ⬜ 10

A. (=)

B. >

C. $\geq$

D. $<$

Answer: D

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153. AB=25cm,BC=10cm.To find AC What is the equation here?

A. 25+10=x

B. 10-25=x

C. x-10=25

D. x+10=25

Answer: D

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154. An equation in one variable with highest power is known as........

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155. An open sentance which contain sign equality is called......

156. Changing of term from one side of equation to other side is called ____.

157. Write tha equation for "The sum of 3 times of p and 5 is 12".........

158. The value of the variable for which equation becomes true is called..............

159. Write the equation for "If you take away 7 from 5 times of m, you get 28".............

160. Write $4x+7=15$ in statement form..........

161. If $5m/3 = 5$ then the value of m=.......................

162. If 3x- 1/3 =5 then the value of x=....................

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163. One third of a number plus 5 is 8 write the statement in the form an equation ....

▶ **Watch Video Solution**

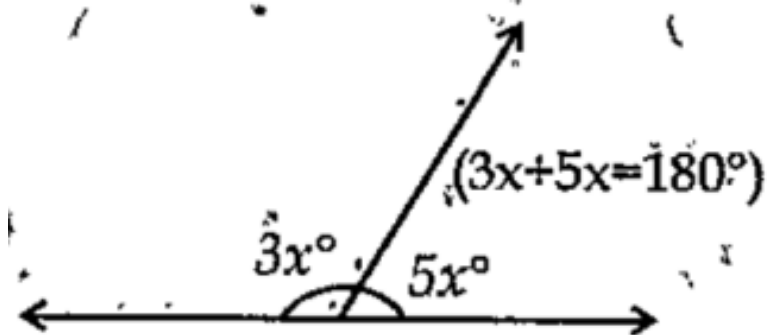**164.** 4x+5= 65 then the value of x is ....

165. The sum of three times of a number and 11 is 32 find the number

166. Express adjacent figure into simple equation ....

$(3x+5x=180°)$

$3x°$ $5x°$

167. A number is multiplied by 5 given 60 then the number is ....

168. The sum of two consecutive integers is 25 then they are ....

169. Six times of a numbers is 54 then the numbers is ....

170. When we transpose 'x' quantity becomes.............

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171. When we transpose '-' quantity becomes...............

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172. match the following

173. The Sum of five times of x and 3 is 28- Write simple equation .

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174. "y-7=10" convert into statement.

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175. Write the equivalent equation for x-7=4

176. Six times of a number 6 is 66. Find the number.

177. What is a simple equation?

178. 2m+7=21 is true form =7

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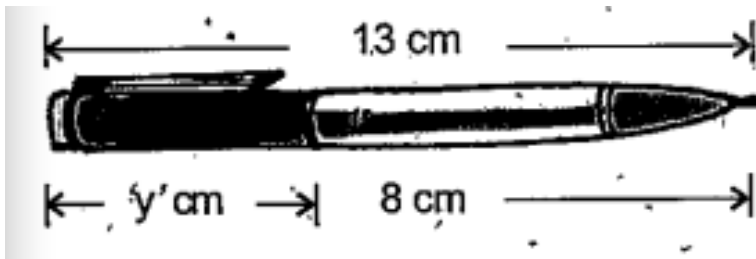**179.** The value of $35°$ C in kelvin is 308 K.

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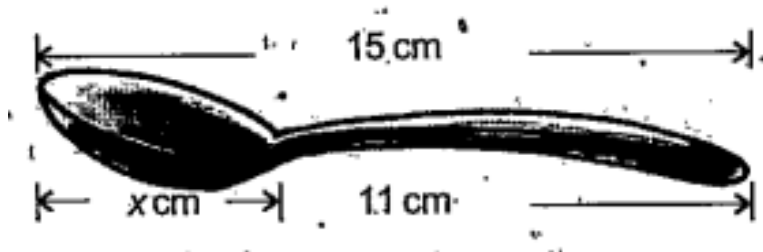**180.** 3x-4=40 is true for x =20.

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181. Write the information given in the pic true in the form of an equation.Also find 'y' in the following figure.

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182. Write the informatin given in the pic true in the form of an equartion.Also find 'x' in the

following figure.

183. Check whether the value given in the

brackets is a solution to the given equation or

not:

n+5=19(n=1)

184. Check whether the value given in the brackets is a solution to the given equation or not:

7n+5=19 (n=-2)

185. Solve the following equation:

12p-5=25

186. Solve the following equation:

3p-10=5

187. Solve equation 2y+5/2=37/2

188. Solve the following equations:

4+5(p-1)=34

189. Solve the following equations:

$4=5(p-2)$

190. When you multiply a number by 6 and subtract 5 from the product you get 7. Can you tell what the number is ?

191. 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 mark is 87. What is the lowest mark?

192. Irfan says that he has 7 marbles more than five times the marbles Parmit has Irfan has 37 marbles. How many marbles does Parmit have?

193. Pant scored twice as many runs as Rohit. Together, ther runs fell two short of a double century. How many runs did each on score?

194. Lakshmi's father is 49 years old. He is 4 years older than three times Lakshmi's age.What is Lakshmi's age?

195. Sum of three consecutive integers is 24. Find the integers.

196. Solve the following equation by trail and error method:

5p+2=17

197. Solve the following equation by traial and error method:

3m-14=4

198. Write equation for the following statements:

The sum of number x and 4 is 9.

199. Write equation for the following statements:

2 subtracted from y is 8

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200. Write equation for the following statements:

Ten times a is 70

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201. Write equation for the following statements:

The numbers b divided by 5 gives 6

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202. Write equation for the following statements:

Three-fourth of t is 15

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203. Write equation for the following statements:

Ten times a is 73 Seven times m plus 7 gets you 77

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204. Write equation for the following statements

One-fourth of a number 'x' minus 4 gives 4

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205. Write equation for the following statements

If you take away 6 from 6 times y, you get 60

    A. you get 60.

    B.

    C.

    D.

Answer:

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206. Write equation for the following statements

If you add 3 to one- third of z, you get 30.

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207. Write the following equation in statements froms:

p+4=15

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208. Write the following equation in statements froms:

m-7=3

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209. Write the following equation in statements froms:

2m=7

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210. Write the following equation in statements froms:

m/5=3

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211. Write the following equation in statements froms:

3m/5=6

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212. Write the following equation in statements froms:

3p+4=25

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213. Write the following equation in statement forms:

4p-2=18

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214. Write the following equation in statement forms:

p/2+2=8

215. In an isosceles triangle, the base angles are equal.The vertex angle is $40°$ .What are the base angles of the triangles? (Remember the sum of three angles of a triangle is $180°$)

216. Sum of two numbers is 95. If one exceeds the other by 3, find the numbers.

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217. A sum of ₹3000 is to be given in the form of 63 prizes. If the prize money is either ₹100 or ₹25. Find the number of prizes of each type.

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218. Length of a rectangle exceeds its breadth by 4 m. If the perimeter of the rectangle is 84 m, find its length and breadth.