MATHS

BOOKS - VGS PUBLICATION-BRILLIANT

LINEAR EQUATIONS IN ONE VARIABLE

Exercise

1. Which of the following are linear equations :

$4x+6=8$

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2. Which of the following are linear equations :

4x-5y=9

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3. Which of the following are linear equations :

$5x^2 + 6xy - 4y^2$=16

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4. Which of the following are linear equations :

$xy + yz + zx = 11$

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5. Which of the following are linear equations

:$3x + 2y - 6 = 0$

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6. Which of the following are linear equations :

$3 = 2x + y$

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7. Which of the following are linear equations :

$7p + 6q + 13s, = 11$

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8. Which of the following are simple equations

? $3x + 5 = 14$

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9. Which of the following are simple equations

? $3x - 6 = x + 2$

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10. Which of the following are simple equations ? 3 = 2x + y

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11. Which of the following are simple equations ? $\frac{x}{3} + 5 = 0$

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12. Which of the following are simple equations ?$x^2 + 5x + 3 = 0$

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13. Which of the following are simple equations ?5m - 6n= 0

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14. Which of the following are linear equations

: 7p + 6q +13s,=11

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15. Which of the following are simple equations ?13t-26=39

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16. Solve the equation 3y + 39 =8

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17. Solve $\frac{7}{4} - p = 11$

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18. Solve the following simple equations :6m = 12

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19. Solve the following simple equations :14p =-

42

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20. Solve the following simple equations :- 5y =

30.

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21. Solve the following simple equations :-

$2x=-12$

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22. Solve the following simple equations :$34x=-51$

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23. Solve the following simple equations :

$$\frac{n}{7} = -3$$

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24. Solve the following simple equations :

$$\frac{2x}{3} = 18$$

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25. Solve the following simple equations :3x+1=16

Watch Video Solution

26. Solve the following simple equations :3p-7=0

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27. Solve the following simple equations :13-6n=7

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28. Solve the following simple equations :200y-51=49

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29. Solve the following simple equations :11n+1=1

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30. Solve the following simple equations :7x-9=16

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31. Solve the following simple equations :

$$8x + \frac{5}{2} = 13$$

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32. Solve the following simple equations :

$$4x - \frac{5}{3} = 9$$

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33. Solve the following simple equations : $x + \frac{4}{3} = 3\frac{1}{2}$

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34. Find the value of $3x^2$ if x=-1

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35. Sum of two numbers is 29 and one number exceeds another by 5. Find the numbers.

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36. Four times a number reduced by 5 equals 19. Find the number.

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37. The length of a rectangle shaped park exceeds its breadth by 17 meters. If the perimeter of the park is 178 meters, find the dimensions of the park.

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38. Two supplementary angles differ by 34. Find the angles.

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39. The present age of Vijay's mother is four times the present age of Vijay. After 6 years the sum of their ages will be 62 years. Find their present ages.

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40. There are 180 multiple choice questions in a test. A candidate gets 4 marks for every correct answer, and for every un-attempted or wrongly answered questions one mark is de ducted from the total score of correct answers. If a candidate scored 450 marks in the test how many questions did he answer correctly?

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41. Ravi works as a cashier in a bank. He has currency of denominations ₹100, ₹50, ₹10 respectively. The ratio of number of these notes is 2:3:5. The total cash with, Ravi is ₹4,00,000. How many notes of cash of each denomination does he have?

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42. The difference between two numbers is 8. If 2 is added to the bigger number the result

will be three times the smaller number. Find the numbers.

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43. What are those two numbers whose sum is 58 and difference is 28?

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44. The sum of two consecutive odd numbers is 56. Find the numbers.

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45. The sum of three consecutive multiples of 7 is 777. Find these multiples. (Hint: Three consecutive multiples of 7 are 'x', 'x+ 7', x + 14).

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46. A man walks 10 km, then travels a certain distance by train and then by bus as far as

twice by the train. If the whole journey is of 70 km, how far did he travel by train ?

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47. Vinay bought a cake and cut it into three pleces. When he weighed the first, place he found that it was 7g lighter than the second piece and 4g heavier than the third plece. If the whole cake weighed 300g. How much did each of the three pieces weigh?(Hint: Weight

of first piece be 'x' then weight of the second piece is x +7', weight of the third plece is 'x-4).

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48. The distance around a rectangular field is 400 metres. The length of the field is 26 metres more than the breadth. Calculate the length and breadth of the field.

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49. Length of a rectangle is 8 m less than twice its breadth. If the perimeter of the rectangle is 56 m, Find its length and breadth.

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50. Two equal sides of a triangle are each 5 metres less than twice the third side. If the perimeter of the triangle is 55 metres, find the length of its sides.

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51. The larger of two supplementary angles exceeds the smaller by 12°. Find the angles.

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52. The ages of Rahul and Lakshmi are in the ratio 5 : 7. Four years later, the sum of their ages will be 56 years. What are their present ages ?

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53. There are 180 multiple choice questions in a test. A candidate gets 4 marks for every correct answer, and for every un-attempted or wrongly answered questions one mark is de ducted from the total score of correct answers. If a candidate scored 450 marks in the test how many questions did he answer correctly?

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54. 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)

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55. A person spent ₹564 In buying pens and pencils if cost of each penis ₹7 and each pencil

is ₹3 and if the total number of things bought was 108, how many of cach type did he buy?

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56. The perimeter of a school volleyball court is 177 ft and the length is twice the width. What are the dimensions of the volleyball court ?

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57. The sum of the page numbers on the facing pages of a book 373. What are the page numbers ? (Hint: Let the page numbers of open pages are x and x + 1)

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58. The present ages of Rafi and Fathima are in the ratio 7:5. Ten years later the ratio of their ages will be 9 : 7. Find their present ages.

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59. Solve: $5(x+2)-2(3-4x)$

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60. Solve the following equations :

$7x-5=2x$

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61. Solve the following equations :

$5x - 12 = 2x - 6$

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62. Solve the following equations :

$7p - 3 = 3p + 8$

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63. Solve the following equations :

$8m + 9 = 7m + 8$

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64. Solve the following equations :

$7z + 13 = 2z + 4$

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65. Solve the following equations :

$9y + 5 = 15y - 1$

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66. Solve the following equations :

$3x + 4 = 5(x - 2)$

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67. Solve the following equations :

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

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68. Solve the following equations :

$5(p-3)=3(-2)$

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69. Solve the following equations :

$5(z+3)=4(2z+1)$

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70. Solve the following equations :

$15(x-1)+4(x+3)=2(7+x)$

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71. Solve the following equations :

$$3(5z-7)+2(z-11)=4(8z-7)-111$$

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72. Solve the following equations :

$$8(x-3)-(6-2x)=2(x+2)-5(5-x)$$

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73. Solve the following equations :

$3(n-4)+2(4n-5)=5(n+2)+16.$

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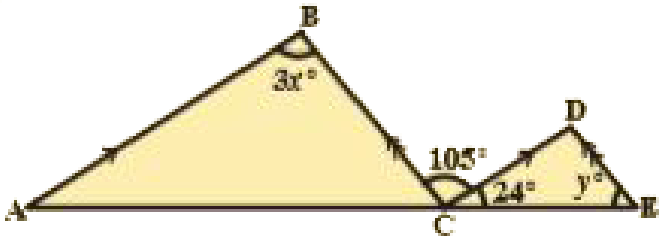
74. In the given figure AB || CD, BC || DE then find the values of x and y



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75. Hema is 24 years older than her daughter Dhaminl. 6 years ago, Hema was thrice as old as Dhamini.Find their present ages.

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76. A two digit number is such that the product of its digits, is 8. When 18 is added to the number, they interchange their places. Determine the number.

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77. A motorboat goes a down stream in a river and covers the distance between two coastal towns in five hours. It covers this distance upstream in six hours. If the speed of the stream is 4 2 km / hours find the speed of the boat in still water.

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78. Eight times of a number reduced by 10 is equal to the sum of six times the number and 4. Find the number.

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79. A number consists of two digits whose sum is 9. If 27 is subtracted from the number its digits are reversed. Find the number.

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80. A number is divided into two parts such that one part is 10 more than the other. If the two parts are in the ratio 5:3, find the number and the two parts.

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81. When I triple a certain number and add 2, I get the same answer as I do when I subtract the number from 50. Find the number .

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82. Mary is twice older than her sister. In 5 years time, she will be 2 years older than her sister. Find how old are they both now.

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83. In 5 years time, Reshma will be three times old as she was 9 years ago. How old is she now?

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84. A town's population increased by 1200 people, and then this new popu lation decreased 11%. The town now „ had 32 less people than it did before the 1200 increase. Find the original population.

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85. Solve : $\frac{x}{2} - \frac{1}{4} = \frac{x}{3} + \frac{1}{2}$

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86. $\frac{x-4}{7} - \frac{x+4}{5} = \frac{x+3}{7}$ then x=____

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87. Solve the equation: $\frac{5x+2}{2x+3} = \frac{12}{7}$

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88. Solve the equation: $\frac{x+7}{3x+16} = \frac{4}{7}$

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89. Rehana got 24% discount on her frock. She paid ₹380 after discount. Find the marked price of the frock.

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90. Four fifths of a number is greater than three fourths of the number by 4:Find, the number.

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91. John sold his watch for ₹301 and lost 14% on it. Find the cost price of the watch.

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92. A man had to walk a certain distance. He covered two thirds of it at 4 kmph Iat and the remaining at 5 kmph. If the total time taken is 42 minutes, find the total distance.

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93. The numerator of a fraction is 6. less than the denominator. If 3 is added to the numerator, the fraction is equal to $\frac{2}{3}$ find the original fraction.

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94. Sirisha has ₹9 in fifty-paisa and twenty five paise coins. She has twice as many twenty five paise coins as she has fifty paise coins. How many coins of each kind.does she have?

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95. A man driving his moped at 24 kmph reaches his destination 5 minutes late to an appointment. If he had driven at 30 kmph he would have reached his destination 4 minutes before time. How far is his destination ?

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96. Solve the following equations:

$$\frac{n}{5} - \frac{5}{7} = \frac{2}{3}$$

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97. Solve the following equations :

$$\frac{x}{3} - \frac{x}{4} = 14$$

Watch Video Solution

98. Solve the following equations :

$$\frac{z}{2} + \frac{z}{3} - \frac{z}{6} = 8$$

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99. Solve the following equations :

$$\frac{2p}{3} - \frac{p}{5} = 11\frac{2}{3}$$

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100. Solve the following equations :

$$9\frac{1}{4} = y - 1\frac{1}{3}$$

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101. Solve the following equations :

$$\frac{x}{2} - \frac{4}{5} + \frac{x}{5} + \frac{3x}{10} = \frac{1}{5}$$

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102. Solve : $\frac{x}{2} - \frac{1}{4} = \frac{x}{3} + \frac{1}{2}$

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103. Solve the following equations :

$$\frac{2x - 3}{3x + 2} = \frac{-2}{3}$$

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104. Solve the following equations :

$$\frac{8p-5}{7p+1}=\frac{-2}{4}$$

Watch Video Solution

105. Solve the following equations :

$$\frac{7y+2}{5}=\frac{6y-5}{11}$$

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106. Solve the following equations :

$$\frac{x+5}{6} - \frac{x+1}{9} = \frac{x+3}{4}$$

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107. Solve the equation :

$$\frac{3t+1}{16} - \frac{2t-3}{7} = \frac{t+3}{8} + \frac{3t-1}{14}$$

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108. What number is that of which the third part exceeds the fifth part by 4?

109. The difference between two positive integers is 36. The quotient when one integer is divided by other is 4. Firid the Integers. (Hint: If one number is 'x', then the other number is 'x - 36')

110. The numerator of a fraction is 4 less than the denoininator. If 1 is added to both its numerator and denominator, it becomes $\frac{1}{2}$ Find the fraction.

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111. Find three consecutive numbers such that if they are divided by 10, 17 and 26 respectively, the sum of their quo tients will be 10. (Hint:

Let the con secutive numbers =x, x+ 1,x +2, then $\frac{x}{10}+\frac{x+1}{17}+\frac{x+2}{26}=10\Big)$

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112. In class of 40 pupils the number of girls is three-fifths of the number of boys. Find the number of boys in the class.

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113. After 15 years, Mary's age will be four times of her present age. Find her present age.

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114. Aravind has a kiddy bank. It is full of one-rupee and fifty paise coins. It con tains 3 times as many fifty paise colns as one rupee coins. The total amount of the money in the bank is 35. How many coins of each kind are there in the bank?

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115. A and B together can finish a piece of work in 12 days. If 'A' alone can finish the same work in 20 days, how many days B alone can finish it ?

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116. If a train runs at 40 kmph it reaches its destination late by 11 minutes. But If it runs at

50 kmph it is late by 5 min utes only. Find the distance to becovered by the train.

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117. One fourth of a herd of goats was seen in the forest. Twice the square root of the number in the herd had gone up the hill and the remaining 15 goats were on the bank of the river. Find the total number of goats.

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118. By selling a radio for ₹ 903,a shop keeper gains 5%. Find the cost price of the radio.

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119. Sekhar gives a quarter of his sweets to Renu and then gives 5 sweets to Raji. He has 7 sweets left. How many did he have to start with ?

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120. The form of a two - digit number?

A. 10 $\times$ ten's digit + unit's digit

B. 10 $\times$ unit's digit + ten's digit

C. 10 $\times$ tens digit - unit's digit

D. 10 $\times$ unit's digit - tens digit

Answer:

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121. Which of the following is a linear equation?

A. $2x^2 + 5 = 0$

B. 4x+5=1

C. 2xy+z=5

D. All the above

Answer:

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122. If $2x - 7 = 35$ then x=

A. 21

B. 22

C. 23

D. 19

Answer:

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123. The sum of two numbers is 29. If one number is 5 greater than the other, then the bigger number is

A. 12

B. 15

C. 17

D. 14

Answer:

Watch Video Solution

124. If $2x - 3 = 4x + 5 \Rightarrow x =$

A. -4

B. 2

C. 3

D. -3

Answer:

Watch Video Solution

125. "If 5 is subtracted from 4 times of a number gives 19, then the number is

A. 4

B. 6

C. 8

D. 5

Answer:

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126. The length of a rectangular park is • 17m more than the breadth. If its perimeter is 178 m, then the length is.(in mts)

A. 53

B. 36

C. 17

D. 49

Answer:

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127. If $\frac{X}{-5} = -1 \Rightarrow x =$

A. 5

B. -5

C. $-\frac{1}{5}$

D. -6

Answer:

Watch Video Solution

128. The difference of two linear angles is 34 then the smaller angle is

A. 49°

B. 107°

C. 73°

D. 83°

Answer:

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129. Present age of Rajesh is x years. After 5 years his age will be

A. $x / 5$years

B. (x-5)years

C. (x+5)years

D. (5-x)years

Answer:

Watch Video Solution

130. If 2t =0 then 't'=

A. $\frac{1}{2}$

B. 0

C. -3

D. can't be determine

Answer:

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131. If 5(p-3)=3(p-2)then p=

A. $\frac{9}{2}$

B. $-\frac{9}{2}$

C. 44441

D. $-\frac{2}{9}$

Answer:

Watch Video Solution

132. If $\frac{x}{2} + \frac{x}{3}$=5 then x=

A. 5

B. 6

C. 4

D. 30

Answer:

Watch Video Solution

133. Solve the equation: $\frac{x+7}{3x+16} = \frac{4}{7}$

A. -1

B. -2

C. -3

D. -4

Answer:

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134. $\frac{4}{5}$ times of a number is 4 greater than $\frac{3}{4}$ times of the same number. Then the number is

A. 20

B. 30

C. 60

D. 80

Answer:

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135. $2015k = 2016 - 2016$ then k=_____

A. 1

B. $\frac{1}{2015}$

C. 0

D. 9

Answer:

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136. 'In a fraction the denominator is 6 more than the numerator. If 3 is added to numerator the fraction equals to $\frac{2}{3}$ then the fraction is_____

A. $3/9$

B. $2/9$

C. $2/6$

D. $3/6$

Answer:

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137. $\frac{x-4}{7} - \frac{x+4}{5} = \frac{x+3}{7}$ then x=____

A. 14

B. 7

C. 9

D. -9

Answer:

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138. 3y + 39 = 8 then y =_____

A. 1

B. $\frac{1}{2}$

C. $-\frac{1}{3}$

D. $-\frac{31}{3}$

Answer:

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139. Solve the following equations :

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

A. $-\frac{4}{7}$

B. $\frac{7}{4}$

C. $-\frac{1}{2}$

D. $\frac{1}{3}$

Answer:

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140. If $\frac{x}{2} - \frac{1}{4} = \frac{x}{3} + \frac{1}{2}$ then x=_____

A. $\frac{1}{2}$

B. $\frac{1}{4}$

C. $\frac{9}{2}$

D. $\frac{2}{9}$

Answer:

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141. Solve the equation: $\frac{5x+2}{2x+3} = \frac{12}{7}$

A. -3

B. -1

C. 4

D. 2

Answer:

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142. If the product of two consecutive numbers is 72 then the smaller number is____

A. $-\frac{3}{2}$ or 19

B. -4 or 6

C. -8 or 6

D. 8 or -9

Answer:

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143. $3x + \frac{1}{2} = 5$ then x=_____

A. $\frac{3}{2}$

B. $\frac{1}{2}$

C. 1

D. $\frac{6}{7}$

Answer:

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144. 3x - 4 = 5x - 2 then x=_____

A. -3

B. 4

C. 1

D. -1

Answer:

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145. $p - \frac{p-1}{2} = 1 - \frac{p-2}{3}$ then p=_____

A. $\frac{7}{5}$

B. $\frac{1}{2}$

C. $\frac{1}{4}$

D. $\frac{1}{9}$

Answer:

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146. $\frac{1}{4}x = 30$ then x=_____

A. 340

B. 710

C. 120

D. 110

Answer:

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147. $\frac{2x+3}{3+x} = \frac{5}{2}$, x=_____

A. -9

B. 10

C. 3

D. -1

Answer:

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148. Three consecutive numbers can be considered as_____

A. x, x^2, x^3

B. x, x + 1, x + 2

C. x, x^2, x-1

D. x, x- 1, 2x

Answer:

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149. 2.45x + 1.5 = 3.7x - 2.25 then x=_____

A. 4

B. 7

C. 3

D. -1

Answer:

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150. $6-\frac{x-1}{2}=\frac{x-2}{3}+\frac{3-x}{4}$, x=_____

A. 11

B. 10

C. -6

D. -4

Answer:

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151. 3x -x= 0 then x =_____

A. -4

B. -3

C. -1

D. 0

Answer:

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152. $\frac{x}{5} + 11 = \frac{1}{15}$ then x=_____

A. 1

B. -1

C. 3

D. None

Answer:

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153. If we divide a number by 7 we get the result as 5, then the number is _____

A. 35

B. 10

C. 16

D. 70

Answer:

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154. Which of the following is true ?

A. $3x = 10, x = 1$

B. $2m = 1, m=0$

C. $\frac{2}{3}x=1, x=\frac{3}{2}$

D. $2x - x=9, x= 9$

Answer:

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155. $ax + c =0$ then $x =$_____

A. $-\frac{c}{a}$

B. $-\frac{b}{a}$

C. $\frac{b}{a}$

D. $\frac{1}{c}$

Answer:

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156. 3z - 1 = 1 then z=_____

A. -1

B. $\frac{3}{2}$

C. $\frac{2}{3}$

D. 1

Answer:

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157. Which of the following equation has the natural number as solution ?

A. 8x-3=4

B. 2x=1

C. 9x=9

D. 3x+1=-0

Answer:

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158. $3x + 7 = -20$, x=_____

A. -3

B. -91

C. -4

D. -9

Answer:

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159. If x is 3 more then it becomes 7 the equation form of this is_____

A. x=3+7

B. x-1=1

C. x-3=4

D. x+3=7

Answer:

Watch Video Solution

160. 43 k = 0.086 then k=_____

A. 0.02

B. 0.7

C. 0.2

D. 0.002

Answer:

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161. If y-15 and 2y +1 are to be equal then the value of y is_____

A. -16

B. 16

C. 10

D. 20

Answer:

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162. Which of the following equation has '5' as solution?

A. x-5=1

B. 10x=50

C. 6x=2

D. $50x=5$

Answer:

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163. The equation $x = 6$ can be obtained from_____

A. $4x=6$

B. $x-1=5$

C. $x+6=7$

D. 5x=66

Answer:

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164. -6 +k =-12 then k=_____

A. 3

B. 10

C. -6

D. 1

Answer:

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165. $\frac{x}{2}$=-31 then x=_____

A. 33

B. 11

C. -60

D. -62

Answer:

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166. _____is a solution to 3x=-1.

A. $-\frac{1}{3}$

B. 3

C. 1

D. $\frac{1}{4}$

Answer:

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167. $2x + 3 = 5$ then $4x + 6$=_____

A. 10

B. 16

C. 13

D. 9

Answer:

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168. 3x = 15 then x-4=_____

A. 16

B. 7

C. 3

D. 1

Answer:

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169. 4x-7 = 11 then x=_____

A. 10

B. 6

C. 9

D. None

Answer:

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170. 3 (x-5)=8x -6 In this equation the number of variables are_____

A. 2

B. 3

C. 1

D. 4

Answer:

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171. $x - \frac{1}{2} = -\frac{1}{2}$ then x = _____

A. -1

B. 0

C. 9

D. 1

Answer:

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172. If we add 4 to 8 times of a number we get 60 then, the number is_____

A. 7

B. 6

C. 9

D. 10

Answer:

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173. If we subtract 11 from the double of a number we get 15 then the number is_____

A. 18

B. 11

C. 10

D. 13

Answer:

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174. Krishna Kishore took one number.If he subtracts 7 from the $\frac{5}{2}$th value of the number, he gets $\frac{11}{2}$ as result then the number is_____

A. 9

B. 10

C. 5

D. 6

Answer:

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175. Sachin scored twice as many runs as Rahul. Together, their runs fell two runs short of a double century. How many runs did each one score?

A. 132

B. 66

C. 16

D. 98

Answer:

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176. The age of Rani's father was 49 years and he was 4 years more than 3 times the age of Rani, then what is the age of rani?

A. 16 years

B. 15 years

C. 9years

D. 10years

Answer:

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177. $\frac{x}{5}$-1=2 then x=_____

A. 16

B. 10

C. 19

D. 15

Answer:

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178. $\frac{2}{3}$y =1 then y=_____

A. $\frac{3}{2}$

B. 1

C. $\frac{2}{3}$

D. $\frac{1}{2}$

Answer:

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179. The sum of 3 consecutive multiples of 7 was 357 then the smaller number is_____

A. 112

B. 116

C. 135

D. 171

Answer:

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180. $-\frac{4y}{7} = -\frac{4}{9}$ then y=_____

A. $\frac{1}{4}$

B. $\frac{2}{3}$

C. $\frac{1}{9}$

D. $\frac{7}{9}$

Answer:

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181. $\frac{1}{3} - s = \frac{1}{9}$ then s=_____

A. 1

B. -1

C. 2

D. None

Answer:

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182. An equation in one variable will have_____solution(s).

A. 1

B. 2

C. 3

D. 4

Answer:

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183. 2 (a -3) = 2 then a=_____

A. 14

B. -3

C. 4

D. 1

Answer:

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184. $\frac{x+2}{x-2} = \frac{7}{3}$ then x=_____

A. 5

B. -5

C. 10

D. 6

Answer:

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185. 0.18 (5x - 4) = 0.5x +0.8, x=_____

A. 3

B. 3.8

C. 8

D. 1.9

Answer:

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186. $\frac{1}{2}p=\frac{1}{2}$ then p=_____

A. $\frac{1}{4}$

B. -1

C. 2

D. 1

Answer:

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187. $\frac{3}{4}$(8x-1)=0 then x=_____

A. $\frac{1}{4}$

B. $\frac{1}{2}$

C. $\frac{1}{8}$

D. -1

Answer:

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188. If we add 9 to a positive number we get 45, then the number is_____

A. 13

B. 11

C. 10

D. 12

Answer:

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189. The sum of two consecutive positive numbers is 10 then the smallest one is_____

A. 6

B. 7

C. 9

D. None

Answer:

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190. $\frac{4x}{4} = \frac{3}{4}$, x=_____

A. $\frac{3}{4}$

B. $-\frac{2}{3}$

C. 1

D. 0

Answer:

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191. 0.3x.+ 0.4= 0.28x + 1.16, x=_____

A. 10

B. 38

C. 19

D. 29

Answer:

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192. $-5(x+4)=0$, x=_____

A. 41

B. -4

C. -3

D. 7

Answer:

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193. Identify linear equation among the following.

A. $3x^2y + 7 = 0$

B. $x^2y^2 + 1 = 0$

C. ax+3y+7z=0

D. $9xy^2z + 6yz = 0$

Answer:

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194. The degree of a Linear equation is_____

A. 1

B. 3

C. -2

D. -1

Answer:

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195. Identify a Linear equation in one variable among the following.

A. $2x+y=0$

B. $7x-3z+4p=0$

C. $2(x-1)+7=9$

D. $8x=3y+4$

Answer:

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196. $\frac{4}{3}$x-x=$\frac{1^1}{2}$ then x=_____

A. 0

B. 5

C. 3

D. None

Answer:

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197. In $\frac{1}{2}(t+3)=2(t+7)$, LHS=____

A. $\frac{1}{2}(t+3)$

B. $\frac{1}{2}(t-3)$

C. t-3

D. $\frac{1}{2}(t-1)$

Answer:

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198. 2 x = 1+ x, x = _____

A. 0

B. 1

C. -3

D. -7

Answer:

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199. After 12 years the age of Ramu is 3 times the age before he was 4 years then his present age is _____years.

A. 16

B. 10

C. 9

D. None

Answer:

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200. The difference between two complementary angles is 10° then the largest angle is_____

A. 40°

B. 50°

C. 70°

D. 60°

Answer:

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201. $x - 1 = \frac{7}{4}$ then x=_____

A. $\frac{11}{4}$

B. $\frac{4}{11}$

C. $\frac{8}{41}$

D. $\frac{9}{3}$

Answer:

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202. If we add half a number to it we get 72 then the number is_____

A. 38

B. 48

C. 64

D. 90

Answer:

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203. One person sold a radio at 10% profit then he gets 714 then the C.P of that radio was_____

A. 160

B. 140

C. 120

D. 680

Answer:

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204. $\frac{6}{7} - \frac{5}{4} - \frac{1}{3}x + 2x = 0$ then x=_____

A. $\frac{133}{196}$

B. $\frac{1}{194}$

C. $\frac{3}{196}$

D. None

Answer:

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205. $\frac{7}{4} - p = 11, p$=_____

A. $-\frac{7}{2}$

B. $-\frac{3}{4}$

C. $-\frac{37}{4}$

D. $\frac{7}{4}$

Answer:

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206. "If 5 is subtracted from 4 times of a number gives 19, then the number is

A. 18

B. 13

C. 11

D. 19

Answer:

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207. In 5 (2x+A)= 10x -$\frac{9}{2}$,RHS =_____

A. 10x+1

B. $10x - \frac{9}{2}$

C. 10x-x

D. 8x+1

Answer:

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208. $\frac{3x+16}{x+7}=\frac{7}{4}$,x=_____

A. 4

B. 3

C. 8

D. -3

Answer:

Watch Video Solution

209. $\frac{x-4}{7} = 7 - 7, x =$_____

A. 4

B. 6

C. -14

D. -3

Answer:

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210. We can_____the variables from one side to another side like constants.

A. transpose

B. Balance

C. property

D. None

Answer:

Watch Video Solution

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211. If we double 2x we get_____

A. 3x

B. x

C. 4x

D. $\frac{x}{4}$

Answer:

Watch Video Solution

212. 3x + 4= 2 (x- x) then x = _____

A. $\frac{4}{3}$

B. $-\frac{4}{3}$

C. 3

D. -4

Answer:

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213. In a fraction numerator is 6 less than the denominator. If 3 is added to the numerator it becomes $\frac{2}{3}$ then the fraction is_____

A. $\frac{1}{4}$

B. $\frac{1}{2}$

C. $\frac{3}{8}$

D. $\frac{3}{9}$

Answer:

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214. Ramu found that the result obtained by decreasing 10 from 8 times of a number is equal to adding 4 to six times of the same number. Then the number considered by Ramu is_____

A. 7

B. 8

C. 9

D. 5

Answer:

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215. The difference of two complementary angles is 12 then the bigger angle of them is

A. 51°

B. 39°

C. 57°

D. 43°

Answer:

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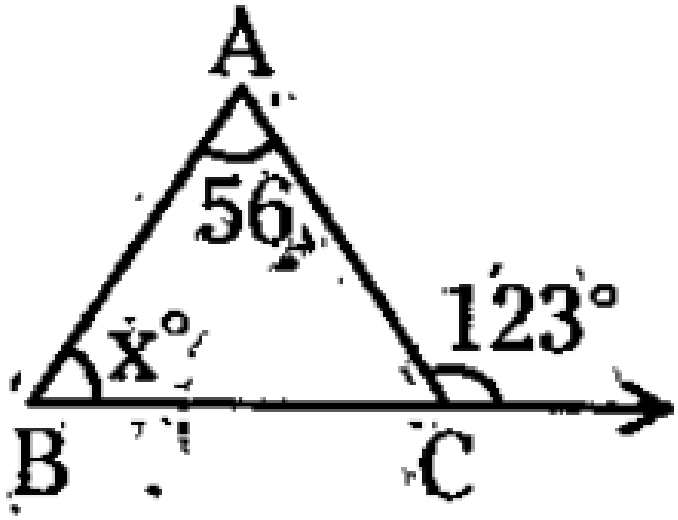
216. In the following figure, the value of x is



A. 57°

B. 47°

C. 67°

D. 37°

Answer:

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217. The sum of two consecutive odd numbers is 56. Find the numbers.

A. 23

B. 25

C. 27

D. 21

Answer:

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218. If $(-3)^{n+1} \times 1 \times (-3)^5 = (-3)^{-4}$ then the value of n is

A. 10

B. -10

C. 11

D. -11

Answer:

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219. Ifx=3 and y=2 then $8x^2$ - $3y^3$ is equal to

A. 5

B. 24

C. 48

D. 3

Answer:

Watch Video Solution

220. The result obtained by adding 2 to the thrice of a number by Ramesh is equal to the result obtained by subtracting the same number from 50. Then the number is

A. 12

B. 13

C. 14

D. 15

Answer:

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221. For which value of x, L.H.S. and R.H.S.of the following equation are equal 5x-12=2x-6

A. 2

B. 3

C. 4

D. -2

Answer:

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222. If we decrease 7 from four times of a number, the result is equal to 21. The equation representing this is

A. $4x+7=21$

B. $4x-7=21$

C. $4x-21=7$

D. $4x+21=7$

Answer:

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223. Which of the following is a linear equation?

A. $5x^2 + 2xy + y^2 = 15$

B. 2x-3y+5

C. x+y+7=0

D. $2x^2 = 3$

Answer:

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