MATHS

BOOKS - VGS PUBLICATION-BRILLIANT

RATIONAL NUMBER

Exercise

1. Hamid says $\frac{5}{3}$ is a rational number and 5 is only a natural number. Shikha says both are rational numbers. With whom do you agree?

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2. Give one example each to the following statements.

iv. A number which is natural number, whole number, integer and rational number.

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3. Give one example each to the following statements.

ii. A whole number which is not a natural number

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4. Give an example to satisfy the following statements : All integers are rational numbers but all rational numbers need not be integers.

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5. $\frac{9}{10} + \left(-\frac{13}{8} \right)$

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6. The Value of $1\frac{3}{5} + 4\frac{2}{7} =$

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7. The Value of $\frac{-7}{16} - \left(\frac{-9}{20}\right) =$

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8. $\frac{-11}{14} - \left(\frac{1}{21}\right)$

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9. Find the additive inverse of the following numbers : $\frac{-7}{6}, \frac{1}{10}, \frac{-3}{4}, 8$

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10. $\frac{18}{11} \times \frac{-33}{45}$

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11. $\frac{-7}{17} \times \frac{-1}{10}$

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12. $\frac{-105}{72} \times \frac{18}{15}$

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13. The value of $\frac{13}{120} \times \frac{100}{16} =$

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14. $\frac{8}{5} \div \frac{2}{3}$

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15. The Value of $\frac{18}{25} \div \left(\frac{-72}{75}\right) =$

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16. The Value of $\frac{-125}{64} \div \frac{50}{16} =$

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17. Divide $\frac{-512}{441}$ with $\frac{-1024}{21}$

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18. If we exclude zero from the set of integers. then is it closed under division ?

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19. If a property holds good with respect to addition for rational numbers, whether it holds good for integers ? And for whole numbers? Which one holds good and which doesn't hold good?

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20. Write the numbers whose multiplicative inverses are the numbers themselves.

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21. Can you find the reciprocal of '0' (zero)? Is there any rational numbers such that when it is multiplied by '0' gives '1' ?

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22. Find using distributivity :

$$\left\{\frac{7}{5}\times\left(\frac{-3}{10}\right)\right\}+\left\{\frac{7}{5}\times\frac{9}{10}\right\}$$

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23. Find using distributivity :

$$\left\{\frac{9}{16}\times 3\right\}+\left\{\frac{9}{16}\times(-19)\right\}$$

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24. Complete the following table using the periodic table .

Period number	Total no.of elements	Elements		Total no. of elements in			
		From	To	s-block	p-block	d-block	f-block
1							
2							
3							
4							
5							
6							
7							

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25. Complete the following table using the periodic table .

Period number	Total no.of elements	Elements		Total no. of elements in			
		From	To	s-block	p-block	d-block	f-block
1							
2							
3							
4							
5							
6							
7							

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26. Simplify $\frac{2}{5}+\frac{3}{7}+\left(\frac{-6}{5}\right)+\left(\frac{-13}{7}\right)$

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27. Write the additive inverses of each of the following rational numbers : $\frac{2}{7}$

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28. Write the additive inverses of each of the following rational numbers : $\frac{-11}{5}$

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29. Write the additive inverses of each of the following rational numbers : $\frac{7}{-13}$

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30. Write the additive inverses of each of the following rational numbers : $\frac{-2}{-3}$

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31. $\frac{2}{5} \times \left(\frac{-1}{9}\right) + \frac{23}{180} - \frac{1}{9} \times \frac{3}{4} =$ _____

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32. Multiply the reciprocals of $\frac{-9}{2}, \frac{5}{18}$ and add the additive inverse of $\left(\frac{-4}{5}\right)$ to the product. What is the result ?

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33. Name the property involved in the following examples : $\frac{8}{5}+0=\frac{8}{5}=0+\frac{8}{5}$

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34. Name the property involved in the following examples : $2\left(\frac{3}{5}+\frac{1}{2}\right)=2\left(\frac{3}{5}\right)+2\left(\frac{1}{2}\right)$

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35. Name the property involved in the following examples : $\frac{3}{7} \times 1 = \frac{3}{7} = 1 \times \frac{3}{7}$

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36. Name the property involved in the following examples : $\left(\frac{-2}{5}\right) \times 1 = \frac{-2}{5} = 1 \times \left(\frac{-2}{5}\right)$

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37. Name the property involved in the following examples : $\frac{2}{5} + \frac{1}{3} = \frac{1}{3} + \frac{2}{5}$

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38. Name the property involved in the following examples : $\frac{5}{2} \times \frac{3}{7} = \frac{15}{14}$

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39. Name the property involved in the following examples : $7a + (- 7a) = 0$

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40. Name the property involved in the following examples : $x \times \frac{1}{x} = 1(x \neq 0)$

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41. Name the property involved in the following examples : $(2 \times x) + (2 \times 6) = 2 \times (x + 6)$

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42. Write the additive and the multiplicative inverses of the following : $\frac{-3}{5}$

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43. Write the additive and the multiplicative inverses of the following : 1

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44. Write the additive and the multiplicative inverses of the following : 0

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45. Write the additive and the multiplicative inverses of the following : $\frac{7}{9}$

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46. Write the additive and the multiplicative inverses of the following : -1

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47. Fill in the Blanks :

$$\left(\frac{-1}{17}\right) + (\_) = \left(\frac{-12}{5}\right) + \left(\frac{-1}{17}\right)$$

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48. Fill in the Blanks : $\frac{-2}{3} + \_ = \frac{-2}{3}$

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49. Fill in the Blanks : $1 \times \_ = \frac{9}{11}$

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50. Fill in the Blanks :

$$-12+\left(\frac{5}{6}+\frac{6}{7}\right)=\left(-12+\frac{5}{6}\right)-(\_\_\ \_)$$

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51. Fill in the Blanks :

$$(\_)\times\left(\frac{1}{2}+\frac{1}{3}\right)=\left(\frac{3}{4}\times\frac{1}{2}\right)+\left(\frac{3}{4}\times\_\right)$$

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52. Fill in the Blanks : $\frac{-16}{7}+\_\ -=\frac{-16}{7}$

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53. Multiply $\frac{2}{11}$ by the reciprocal of $\frac{-5}{14}$

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54. Which properties can be used in computing $\frac{2}{5} \times \left[5 \times \frac{7}{6}\right] + \frac{1}{3} \times \left(3 \times \frac{4}{11}\right)$?

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55. Verify the following and write the property used

$$\left(\frac{5}{4}+\frac{-1}{2}\right)+\frac{-3}{2}=\frac{5}{4}+\left(\frac{-1}{2}+\frac{-3}{2}\right)$$

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56. Evaluate $\frac{3}{5}+\frac{7}{3}+\left(\frac{-2}{5}\right)+\left(\frac{-2}{3}\right)$ after rearrangement.

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57. Subtract $\frac{3}{4}$ from $\frac{1}{3}$

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58. Subtract $\frac{-32}{13}$ from 2

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59. Subtract - 7 from $\frac{-4}{7}$

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60. What number should be added to $\frac{-5}{8}$ so as to get $\frac{-3}{2}$?

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61. The sum of two rational is 8. If one of the number is $\frac{-5}{6}$ find the other

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62. Is subtraction associative in rational numbers ? Explain with an example.

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63. Verify that $-(-x) = x$ for $x = \frac{2}{15}$

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64. Verify that $-(-x) = x$ for $x = \frac{-13}{17}$

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65. Write the set of number which do not have any additive identity .

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66. Write the rational number that does not have any reciprocal.

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67. Write the reciprocal of a negative rational number.

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68. Represent $\frac{5}{8}$ on the number line.

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69. Represent $\frac{29}{6}$ on the number line.

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70. Represent $-\frac{13}{5}$ on the number line.

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71. Write any five rational numbers between -3 and 0.

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72. Represent these number on the number line

$\frac{9}{7}$

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73. Represent these number on the number line

$$\frac{-7}{5}$$

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74. Represent $-\frac{2}{13}, -\frac{5}{13}, -\frac{9}{13}$ on the number line.

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75. Write five rational numbers which are smaller that $\frac{5}{6}$

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76. Find 12 rational numbers between -1 and 2

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77. Find a rational numbers between $\frac{2}{3}$ and $\frac{3}{4}$

[Hint: First write the rational numbers with equal denominators.]

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78. Find ten rational numbers between $-\frac{3}{4}$ and $\frac{5}{6}$.

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79. Express the following in decimal form. $\frac{7}{5}, \frac{3}{4}, \frac{23}{10}, \frac{5}{3}, \frac{17}{6}, \frac{22}{7}$

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80.

Express the following in decimal form.

$\frac{7}{5}, \frac{3}{4}, \frac{23}{10}, \frac{5}{3}, \frac{17}{6}, \frac{22}{7}$

Which of the above are terminating and which are non-terminating decimals?

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81.

Express the following in decimal form.

$\frac{7}{5}, \frac{3}{4}, \frac{23}{10}, \frac{5}{3}, \frac{17}{6}, \frac{22}{7}$

Write the denominators of above rational numbers as the product of primes.

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82. If the denominators of the above simplest rational numbers has no prime divisors other than 2 and 5 what do you observe?

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83. Express each of the following decimals in the $\frac{p}{q}$ form 0.35

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84. Express each of the following decimals in the $\frac{p}{q}$ form -8.005

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85. Express each of the following decimals in the $\frac{p}{q}$ form 2.104

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86. Express each of the following decimals numbers in the rational from. $0.\bar{4}$

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87. Express each of the following decimals numbers in the rational from. $0.\overline{54}$

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88. Express each of the following decimals numbers in the rational from. $4.\bar{7}$

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89. Express the mixed recurring decimal $15.7\overline{32}$ in $\frac{p}{q}$ form.

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90. Convert the decimals $0.\bar{9}$, $14.\bar{5}$ and $1.2\bar{4}$ to the rational form. Can you find any easy method other than forma method?

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91. Express each of the following decimal in the $\frac{p}{q}$ form 0.57

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92. Express each of the following decimal in the $\frac{p}{q}$ form0.176

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93. Express each of the following decimal in the $\frac{p}{q}$ form 1.00001

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94. Express each of the following decimal in the $\frac{p}{q}$ form 25.125

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95. Express each of the following decimals in the rational form $\left(\frac{p}{q}\right) 0.\bar{9}$

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96. Express each of the following decimals in the rational form $\left(\frac{p}{q}\right)$. $0.\overline{57}$

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97. Express each of the following decimals in the rational form $\left(\frac{p}{q}\right)$. $0.7\overline{29}$

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98. Express each of the following decimals in the rational form $\left(\frac{p}{q}\right)$. $12.2\bar{8}$

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99. Find $(x+y) \div (x-y)$ if $x = \frac{5}{2}, y = -\frac{3}{4}$

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100. Find $(x+y) \div (x-y)$ if $x = \frac{1}{4}, y = \frac{3}{2}$

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101. Divide the sum of $-\frac{13}{5}$ and $\frac{12}{7}$ by the product of $-\frac{13}{7}$ and $-\frac{1}{2}$.

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102. If $\frac{2}{5}$ number exceeds $\frac{1}{7}$ of the same number by 36. Find the number.

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103. Two pieces of lengths $2\frac{3}{5}m$ and $3\frac{3}{10}m$ are cut from a rope 11 m long . What is the length of the remaining rope?

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104. The cost of $7\frac{2}{3}$ metres of cloth is ₹ $12\frac{3}{4}$ Find the cost per metre.

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105. Find the area of a rectangular park which is $18\frac{3}{5}m$ long and $8\frac{2}{3}m$ broad.

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106. What number should $-\frac{33}{16}$ be divided by to get $-\frac{11}{4}$?

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107. If 36 trousers of equal sizes can be stitched with 64 metres of cloth. What is the length of the cloth required for each trousers?

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108. When the repeating decimal 10.363636.... is written in simplest fractional from $\frac{p}{q}$, find the sum $p + q$.

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109. Which of the following is not a rational number ?

A. 1

B. $1.\bar{3}$

C. $\sqrt{5}$

D. $\sqrt{9}$

Answer:

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110. Which of the following is true ?

A. $N \subset W \subset Q \subset Z$

B. $N \subset Z \subset W \subset Q$

C. $W \subset N \subset N \subset \mathrm{Z}$

D. $N \subset W \subset Z \subset Q$

Answer:

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111. Set of rational numbers under addition which of the following properties is hold ?

A. Closure

B. Associative

C. Commutative

D. All the above

Answer:

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112. Set of rational numbers is not hold which of the following with respect to. closure property?

A. Addition

B. Subtraction

C. Multiplication

D. Division

Answer:

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113. Which of the following is an additive identity ?

A. 0

B. 1

C. 2

D. -1

Answer:

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114. Which of the following is a multiplicative identity element?

A. 0

B. 1

C. 2

D. -1

Answer:

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115. Which of the following is a multiplicative inverse $-\frac{3}{4}$?

A. 1

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

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

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

Answer:

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116. What is the additive inverse of $\frac{5}{6}$?

A. $\frac{-5}{6}$

B. $\frac{-6}{5}$

C. $\frac{6}{5}$

D. 0

Answer:

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117. Which of the following is commutative property under multiplication ?

A. $a \times b = c$

B. $a \times b = b \times a$

C. $a \times (b \times c) = (a \times b) \times c$

D. $a \times (b + c) = ab + ac$

Answer:

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118. Which of the following is a multiplicative distributive property over addition ?

A. $\frac{2}{3} \times \frac{1}{5} = \frac{2}{15}$

B. 2 + 3 = 3+ 2

C. $2 \times (3 \times 4) = (2 \times 3) \times 4$

D. $2 \times (3 + 4) = (2 \times 3) + (2 \times 4)$.

Answer:

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119. Which of the following is not true ?

A. Every natural number is a whole number

B. Every whole number is an integer

C. Every rational number is an integer

D. Every whole number is a rational number

Answer:

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120. $\square \times \frac{7}{8} = \frac{7}{8}$

A. 0

B. 1

C. $\frac{8}{7}$

D. $\frac{7}{8}$

Answer:

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121. $\left(-\frac{1}{2}\right)$ +____ =0

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

B. 0

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

D. 2

Answer:

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122. The product of multiplicative inverses of $\left(-\frac{9}{2}\right)$ and $\frac{5}{18}$ is?

A. $\frac{5}{4}$

B. $-\left(\frac{5}{4}\right)$

C. $\frac{4}{5}$

D. $-\left(\frac{4}{5}\right)$

Answer:

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123. ..... has no multiplication inverse.

A. 0

B. 1

C. -1

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

Answer:

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124. Which of the following is a non - terminating repeating decimal ?

A. $\frac{22}{7}$

B. 1.3

C. $\frac{20}{3}$

D. $\frac{6}{5}$

Answer:

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125. Problem solving : $\frac{p}{q}$ form of 0.35 is .....

A. $\frac{16}{7}$

B. $\frac{35}{100}$

C. $\frac{0.35}{100}$

D. $\frac{35}{1000}$

Answer:

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126. The $\frac{p}{q}$ form of $4.\left(\bar{7}\right)$ is _____

A. $\frac{33}{8}$

B. $\frac{43}{9}$

C. $\frac{4}{9}$

D. $\frac{16}{7}$

Answer:

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127. If we write $0.\bar{4}$ in $\frac{p}{q}$ from the value of $p+q$ is ___

A. 14

B. -9

C. 10

D. 13

Answer:

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128. The $\frac{p}{q}$ form of -8.005 is_____

A. $-\frac{1601}{200}$

B. $\frac{-701}{40}$

C. $\frac{-812}{117}$

D. $\frac{-314}{819}$

Answer:

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129. Periodicity of $1.\overline{(25)}$ is ___

A. 5

B. 25

C. 2

D. 3

Answer:

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130. Period of $1.\left(\overline{156}\right)$ is_____

A. 156

B. 15.6

C. 1.56

D. 15600

Answer:

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131. $\frac{5}{3}$ =____

A. $2.\overline{1}$

B. $1.\overline{8}$

C. $1.\overline{5}$

D. $1.\overline{6}$

Answer:

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132. $\left(-\left(-\frac{-2}{3}\right)\right)$=____

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

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

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

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

Answer:

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133. $\frac{8}{5} + 0 = 0 + \frac{8}{5}$ = ___

A. $\frac{6}{3}$

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

C. $\frac{8}{5}$

D. $\frac{1}{5}$

Answer:

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134. $\frac{2}{5} \times \left(\frac{-1}{9}\right) + \frac{23}{180} - \frac{1}{9} \times \frac{3}{4}$ =_____

A. 3

B. 0

C. 10

D. 16

Answer:

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135. $\frac{2}{5}+\frac{3}{7}-\frac{6}{5}-\frac{13}{7}$ =____

A. $\frac{-8}{5}$

B. $\frac{-7}{3}$

C. $\frac{-78}{35}$

D. $\frac{78}{35}$

Answer:

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136. $1 \text{ x } x$___$=\frac{91}{11}$

A. $\frac{9}{11}$

B. $\frac{91}{11}$

C. $\frac{9}{1121}$

D. $\frac{11}{91}$

Answer:

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137. $2 < \frac{17}{8} < \frac{9}{4} < K < 3, K =$ ____

A. $\frac{1}{7}$

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

C. $\frac{2}{5}$

D. $\frac{5}{2}$

Answer:

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138. $\frac{10}{7}$ =____

A. 0.1428

B. 0.1328

C. 0.7418

D. 0.1923

Answer:

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139. $\frac{1575}{100}$ =___

A. $\frac{4}{63}$

B. $\frac{60}{19}$

C. $\frac{63}{4}$

D. $\frac{6}{31}$

Answer:

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140. Express each of the following decimals in the rational form $\left(\frac{p}{q}\right)$. $0.\bar{9}$

A. 9

B. 1

C. 1.9

D. 7.5

Answer:

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141. $\frac{1}{2}+\frac{1}{2}+\frac{1}{2}+-----10$ times` = ___

A. 6

B. 5

C. 20

D. 4

Answer:

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142. $1 \div \_ \quad \_ \_ \quad = \frac{1}{2}$

A. 2

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

C. 4

D. 6

Answer:

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143. $2016 \div 0 =$_____

A. 0

B. 2

C. 16

D. can't be determine

Answer:

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144. Which number is not a prime number nor a composite number ?

A. 16

B. 1

C. 4

D. 3

Answer:

145. The number of rational numbers between 16 and 17 is ___

A. 10

B. 4

C. 10

D. Infinite

Answer:

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146. $\frac{-3}{2} - \frac{1}{2}$ =_____

A. -4

B. 2

C. -2

D. 6

Answer:

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147. x (p-q) =____

A. px-q

B. p-xq

C. xp-q

D. xp-xq

Answer:

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148. $\frac{5}{9} - \frac{3}{4}$ =----

A. $\frac{-9}{10}$

B. $\frac{1}{6}$

C. $\frac{-7}{36}$

D. $\frac{7}{3}$

Answer:

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149. $\frac{-2}{3} \div \frac{2}{3} =$ ___

A. 10

B. -1

C. 1

D. 0

Answer:

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150. The multiplicative inverse of 1 is ___

A. 7

B. 3

C. 1

D. 10

Answer:

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151. The product of two numbers is $\frac{-20}{9}$ and one of the numbers is 4 then the other number is ___

A. $\frac{-1}{9}$

B. $\frac{9}{5}$

C. $\frac{5}{9}$

D. $\frac{-5}{9}$

Answer:

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152. $\frac{-16}{21} \div \frac{-4}{3} =$ ---

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

B. $\frac{1}{7}$

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

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

Answer:

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153. $\frac{5}{12} \div x = \frac{-35}{18}$

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

B. $\frac{-3}{14}$

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

D. $\frac{-1}{7}$

Answer:

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154. Which of the following rational number is in standard form?

A. $\frac{26}{78}$

B. $\frac{-9}{20}$

C. $\frac{14}{12}$

D. $\frac{-48}{16}$

Answer:

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155. If we subtract ___ from $\frac{-3}{4}$ we get $\frac{5}{6}$

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

B. $\frac{1}{12}$

C. $\frac{-19}{12}$

D. $\frac{9}{4}$

Answer:

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156. Identify the bigger one among the following: $\frac{-4}{9}, \frac{-5}{12}, \frac{-7}{18}, \frac{-2}{3}$

A. $\frac{-7}{18}$

B. $\frac{-5}{12}$

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

D. $\frac{-4}{9}$

Answer:

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157. Kishore bought $5\frac{3}{4}$ kg apples and $4\frac{1}{2}$ kg oranges then find the total weight in kgs.

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

B. $10\frac{1}{4}$kg

C. $7\frac{1}{2}$kg

D. $9\frac{1}{4}$ kg

Answer:

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158. Krishna read $\frac{1}{3}$ of a book in 1 hour. Then how much he will read in $3\frac{1}{3}$ hrs?

A. $\frac{16}{15}$

B. $\frac{6}{11}$

C. $\frac{5}{13}$

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

Answer:

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159. $\frac{11}{2} \times \frac{3}{10}$ =-----

A. $\frac{9}{10}$

B. $\frac{3}{20}$

C. $\frac{30}{20}$

D. `33/20

Answer:

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160. $1-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ =----

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

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

C. -1

D. 10

Answer:

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161. $\frac{3}{5} \div \frac{1}{3} =$ ---

A. 9

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

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

D. $\frac{9}{5}$

Answer:

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162. Reciprocal of $1\frac{1}{2}$=___

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

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

C. 1

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

Answer:

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163. 51.36 + 87.35 =___

A. 131.71

B. 138.71

C. 108.71

D. 81.789

Answer:

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164. $\frac{-24}{84}$ = ____

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

B. $\frac{7}{2}$

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

D. $\frac{2}{7}$

Answer:

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165. Write five equivalent fractions for $\frac{3}{5}$

A. $\frac{12}{20}$

B. $\frac{2}{20}$

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

D. $\frac{1}{16}$

Answer:

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166. $\frac{-4}{9} = \frac{x}{-27}$ then x = ____

A. 13

B. 16

C. 10

D. 12

Answer:

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167. $\frac{-2}{5} \times \frac{-7}{10} \div \frac{1}{6} =$---

A. $\frac{-11}{15}$

B. $\frac{-14}{15}$

C. $\frac{4}{5}$

D. $\frac{5}{4}$

Answer:

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168. $\left(\frac{3}{4}\right) \div 0 =$ ____

A. 0

B. -3

C. -4

D. not defined

Answer:

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169. $\frac{8}{-5} + \frac{-5}{-6} =$ ---

A. $\frac{-23}{30}$

B. $\frac{3}{23}$

C. $\frac{-1}{30}$

D. $\frac{1}{16}$

Answer:

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170. $\frac{3}{8}+\frac{-2}{5}+\frac{7}{8}-\frac{4}{5}$ =---

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

B. $\frac{1}{20}$

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

D. $\frac{-1}{20}$

Answer:

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171. If we subtract $\frac{3}{5}$ from $\frac{7}{20}$ we get ____

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

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

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

D. $\frac{2}{7}$

Answer:

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172. The sum of two Rational numbers is $\frac{1}{2}$ and one of the numbers is $\frac{-8}{19}$ second number is

---

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

B. $\frac{3}{31}$

C. $\frac{5}{38}$

D. $\frac{35}{38}$

Answer:

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173. How much can be added to -2 to get $\frac{7}{9}$

A. $\frac{25}{9}$

B. $\frac{5}{9}$

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

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

Answer:

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174. $4 - \left(2\frac{2}{3} + 3\frac{1}{5}\right) =$ ___

A. $\frac{-2}{15}$

B. $\frac{-28}{15}$

C. $\frac{8}{15}$

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

Answer:

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175. $\frac{2}{3} \times \frac{-5}{6}$ =---

A. $\frac{-1}{9}$

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

C. $\frac{-5}{9}$

D. $\frac{5}{3}$

Answer:

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176. $\frac{7}{9} \times 1\frac{1}{2} \times 8\frac{1}{17} \times \left(\frac{1}{2} - \frac{1}{2}\right)$=---

A. $\frac{1}{189}$

B. $\frac{1}{24}$

C. 0

D. $\frac{1}{6}$

Answer:

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177. $\left(\left(\frac{5}{9}\right)^{-1}\right)^{-1}$ =___

A. $\frac{5}{9}$

B. $\frac{9}{5}$

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

D. $\frac{5}{81}$

Answer:

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178. $\left(\frac{1}{-8}\right)^{-1}$ =_____

A. 4

B. 1

C. 8

D. -8

Answer:

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179. $x = \frac{-1}{5}, y = \frac{2}{7}$ then xy =___

A. $\frac{1}{10}$

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

C. $\frac{1}{35}$

D. $\frac{-2}{35}$

Answer:

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180. The multiplicative inverse of $\frac{-2}{7} \times \frac{-17}{15}$ is ____

A. $\frac{105}{34}$

B. $\frac{15}{34}$

C. $\frac{115}{27}$

D. $\frac{105}{3}$

Answer:

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181. $\frac{16}{35} \div \frac{3}{7} =$ ----

A. $\frac{7}{3}$

B. $\frac{6}{17}$

C. $\frac{1}{15}$

D. $\frac{16}{15}$

Answer:

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182. If we multiply $\frac{32}{9}$ by ____ we get the product as $\frac{8}{9}$

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

B. $\frac{-16}{15}$

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

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

Answer:

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183. $\frac{1}{2} \times \left(\left(-\frac{2}{3} \right) + \frac{1}{4} \right) =$ ____

A. 1

B. 4

C. 5

D. none

Answer:

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184. $\left| \frac{1}{2} - \frac{1}{2} \right| =$ ___

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

B. 1

C. 0

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

Answer:

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185. $4\frac{2}{7} \div 2\frac{2}{5}$ = _____

A. $1\frac{11}{14}$

B. $1\frac{1}{7}$

C. $12\frac{3}{4}$

D. $11\frac{1}{7}$

Answer:

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186. The cost of $5\frac{2}{5}$ litres of milk is ₹ $101\frac{1}{4}$ then find the cost of 1 litre

A. ₹ $9\frac{1}{2}$

B. ₹ $6\frac{1}{2}$

C. ₹ $8\frac{1}{2}$

D. ₹ $18\frac{3}{4}$

Answer:

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187. If we multiply $7\frac{5}{9}$ by $\frac{3}{2}$ we get _____

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

B. $11\frac{1}{3}$

C. $7\frac{1}{2}$

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

Answer:

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188. $3\frac{1}{5} - \frac{1}{5} + 1 =$ ___

A. 7

B. 3

C. 4

D. 5

Answer:

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189. $\frac{13}{14} + \frac{27}{35} =$ -

A. $1\frac{7}{10}$

B. $2\frac{7}{31}$

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

D. $1\frac{1}{35}$

Answer:

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190. $\frac{5}{9} - \frac{7}{12} + \frac{1}{2} =$ -

A. $\frac{7}{36}$

B. $\frac{17}{36}$

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

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

Answer:

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191. $\frac{4}{5}$ th of 1 hour is ___ minutes.

A. 48

B. 84

C. 42

D. 13

Answer:

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192. The measurements of a rectangular park are $41\frac{2}{3}$m and $18\frac{3}{5}$m then the area =__m^2

A. 114

B. 192

C. 775

D. 275

Answer:

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193. $\frac{a}{y-z} = \frac{b}{z-x} = \frac{c}{x-y}$ then

$ax + by + cz$ =___

A. - a

B. -b

C. 0

D. -1

Answer:

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194. 2a + (-2a) =__

A. - 4a

B. $-4a^2$

C. -a

D. 0

Answer:

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195. $x^2 \times \frac{1}{x^2} =_{-} (x \neq 0)$__

A. x^2

B. x

C. x^4

D. 1

Answer:

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196. $(-2) - \left(\frac{1}{2}\right) + \frac{1}{2} - (7) =$_

A. -9

B. 9

C. 7

D. 16

Answer:

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197. $\frac{25}{16}$ = --

A. 1.6521

B. 2.532

C. 1.5625

D. 10.56

Answer:

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198. The $\frac{p}{q}$ form of $4.\left(\bar{7}\right)$ is _____

A. $\frac{43}{9}$

B. $\frac{9}{4}$

C. `12/31

D. $\frac{47}{10}$

Answer:

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199. The natural number 5 can be written as__

A. $\frac{10}{2}$

B. $\frac{50}{10}$

C. $\frac{15}{3}$

D. all of above

Answer:

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200. (2-3)-2=___

A. 3

B. -3

C. -4

D. 6

Answer:

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201. $\left(\frac{1}{2}-\frac{3}{4}\right)-\left(-\frac{5}{4}\right)$=----

A. 0

B. 1

C. -1

D. 4

Answer:

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202. The dimensions of one rectangle are $2\frac{1}{3}$, $4\frac{1}{7}$ then its area is____sq. units.

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

B. 4

C. 3

D. $3\frac{1}{2}$

Answer:

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203. (b-c) a=__

A. ab-c

B. ac-ba

C. ba-ca

D. b-ac

Answer:

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204. A rational number between 5 and 6 is

A. $a + \frac{b}{2}$

B. ab

C. $\sqrt{ab}$

D. $\frac{b}{2} - a$

Answer:

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205. $\frac{5}{-22} + \frac{13}{33} =$ --

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

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

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

D. $\frac{1}{6}$

Answer:

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206. The sum of two rational numbers is -7 and one of the numbers is $-\frac{15}{7}$ then the second number is____

A. 1

B. 4

C. -1

D. none

Answer:

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207. If we multiply the addition of $\frac{91}{12}$ and $\frac{11}{3}$ with their difference we get___

A. $\frac{111}{40}$

B. $\frac{135}{47}$

C. $\frac{119}{13}$

D. $\frac{35}{47}$

Answer:

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208. Sum of two Rational Numbers is 8 and one of them is $\frac{-5}{6}$ then the second number is

A. $\frac{53}{6}$

B. $\frac{-53}{6}$

C. $\frac{43}{6}$

D. $\frac{13}{6}$

Answer:

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209. The difference of period and periodicity of $0.\overline{39}$ is

A. 37

B. 39

C. 41

D. 14

Answer:

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210. If $0.\overline{35}$ is expressed in the form of $\frac{p}{q}$ the value of p+q is

A. 27

B. 72

C. 35

D. 53

Answer:

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211. The product of multiplicative inverse of $\frac{2}{11}$ and $\frac{-5}{14}$ is

A. $\frac{28}{55}$

B. $\frac{-28}{55}$

C. $\frac{55}{28}$

D. $\frac{-55}{28}$

Answer:

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212. In which of the following number $set / sets$ the additive inverse of 9 lies

A. N

B. W

C. Z

D. N and W

Answer:

213. Which of the following is multiplicative associative property?

A.

$$\frac{5}{2} \times \left(\frac{3}{7} + \frac{9}{5}\right) = \left(\frac{5}{2} \times \frac{3}{7}\right) + \left(\frac{5}{2} \times \frac{9}{5}\right)$$

B. $\left(\frac{5}{2} + \frac{3}{7}\right) + \frac{9}{5} = \frac{5}{2} + \left(\frac{3}{7} + \frac{9}{5}\right)$

C. $\frac{5}{2} \times \left(\frac{3}{7} \times \frac{9}{5}\right) = \left(\frac{5}{2} \times \frac{3}{7}\right) \times \frac{9}{5}$

D.

$$\frac{5}{2} \times \left(\frac{3}{7} - \frac{9}{5}\right) = \left(\frac{5}{2} \times \frac{3}{7}\right) - \left(\frac{5}{2} \times \frac{9}{5}\right)$$

Answer:

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