MATHS

BOOKS - RD SHARMA MATHS (HINGLISH)

FRACTIONS

All Questions

1. Mrs. Sharma has 24 apples. She uses $\frac{1}{4}$ of them. How many apples does she use? How

many does she have left?

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2. Yashi has a packet of 20 biscuits. She gives $\frac{1}{2}$ of them to Yana and $\frac{1}{4}$ of them to Jaya. The real she keeps. How many biscuits does Yana get? How many biscuits does Jaya get? How many biscuits does Yashi keep?

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3. What fraction of a day is 8 hours ?

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4. Determine $\frac{2}{3}$ of a collection of 9 kites.

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5. What fraction of an hour is 20 minutes?

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6. Write the natural numbers from 2 to 12. What fraction of them are prime numbers?

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7. Write the natural numbers from 102 to 113. What fraction of them are prime numbers?

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8. Mukesh has a box of 24 pencils. He give half of them to Sunita. How many does Sunita get? How many does Mukesh still have?

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9. Kavita has 44 cassettes. She gives $\frac{3}{4}$ of them to Sonia. How many does Sonia get? How many does Kavita keep?

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10. Shikhas has three frocks that she wear when playing. The material is good, but the colours are faded. Her mother buys some blue dye and uses it on two of the frocks. What fraction of all of the Shikha play frocks did her mother dye?

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11. Represent $\frac{2}{5}$ on a number line.

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12. Represent $\frac{0}{10}, \frac{1}{10}, \frac{5}{10} and \frac{10}{10}$ on a number line.

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13. Represent $\frac{2}{7}, \frac{5}{7}$ and $\frac{6}{7}$ on a number line.

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14. How many fractions lie between 0 and 1.

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15. Represent $\frac{0}{8} and \frac{8}{8}$ on a number line.

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16. Write each of the following divisions as fractions: (i)$6 \div 3$ (ii) $25 \div 5$ (iii) $125 \div 50$ (iv) $55 \div 11$

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17. Write each of the following fractions as divisions: $\frac{9}{7}$ (ii) $\frac{3}{11}$ (iii) $\frac{90}{63}$ (iv) $\frac{1}{5}$

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18. Express each of the following mixed fractions as improper fractions: $3\frac{2}{7}$ (ii) $4\frac{5}{9}$ (ii) $3\frac{2}{5}$

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19. Express each of the following as mixed fractions: $\frac{17}{4}$ (ii) $\frac{13}{5}$ (iii) $\frac{28}{5}$

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20. Convert each of the following into a mixed fraction: $\frac{28}{9}$ (ii) $\frac{226}{15}$ (iii) $\frac{145}{9}$ (iv) $\frac{128}{5}$

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21. Convert each of the following into an improper fraction: $7\frac{1}{4}$ (ii) $8\frac{5}{7}$ (iii) $5\frac{3}{10}$ (iv) $12\frac{7}{15}$

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22. Replace ( ) in each of the following by the correct number $\frac{2}{7} = \frac{8}{(\ )}$ (ii) $\frac{3}{5} = \frac{(\ )}{20}$

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23. Find the equivalent fraction of  \frac{3}{5}

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24. Replace ( ) in each of the following by the correct number: $\frac{3}{5} = \frac{(\ )}{20}$ (ii) $\frac{2}{7} = \frac{8}{(\ )}$

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25. Check whether the given fractions are equivalent : (a)  \frac{5}{9},\frac{{30}}{{54}}

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26. Replace ( ) in each of the following by the correct number: $\frac{2}{7}=\frac{6}{(\ )}$ (ii) $\frac{5}{8}=\frac{10}{(\ )}$ (iii) $\frac{4}{5}=\frac{(\ )}{20}$ $\frac{45}{60}=\frac{15}{(\ )}$ (v) $\frac{18}{24}=\frac{(\ )}{4}$

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27. Find the equivalent fraction of $\frac{3}{5}$, having numerator 9 (ii) denominator 30 numerator 21 (iv) denominator 40

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28. Find the fraction equivalent to $\frac{45}{60}$, having: numerator 15 (ii) denominator 4 denominator 240 (iv) numerator 135

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29. Find the fraction equivalent of $\frac{35}{42}$, having: numerator 15 (ii) denominator 18 denominator 30 (iv) numerator 30

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30. Check whether the given fractions are equivalent: $\frac{5}{9}, \frac{30}{54}$ (ii) $\frac{2}{7}, \frac{16}{42}$ (iii) $\frac{7}{13}, \frac{5}{11}$ (iv) $\frac{4}{11}, \frac{32}{88}$ (v) $\frac{3}{10}, \frac{12}{50}$ (vi) $\frac{9}{27}, \frac{25}{75}$

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31. Match the equivalent fractions and write another 2 for each: $\frac{250}{400}$ $\frac{180}{200}$ $\frac{660}{990}$ $\frac{180}{360}$ $\frac{220}{550}$

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32. Write some equivalent fractions which contain all digits from 1 to 9 once only.

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33. Ramesh had 20 pencils, Sheelu had 50 pencils and Jamaal had 80 pencils. After 4 months,

Ramesh used up 10 pencils, Sheelu used up 25 pencils and Jamaal used up 40 pencils. What fraction did each use up? Check if each has used up an equal fraction

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34. Reduce each of the following fractions to its lowest term: $\frac{48}{60}$ (ii) $\frac{126}{90}$

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35. Is $\frac{169}{289}$ in its simplest form?

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36. Reduce each of the following fractions to its lowest terms (simplest form): $\frac{40}{75}$ (ii) $\frac{42}{28}$ (iii) $\frac{12}{52}$

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37. Reduce each of the following fractions to its lowest terms (simplest form): $\frac{40}{72}$ (ii) $\frac{80}{24}$ (iii) $\frac{84}{56}$

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38. Simplify each of the following to its lowest term: $\frac{75}{80}$ (ii) $\frac{52}{76}$ (iii) $\frac{84}{98}$

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39. Simplify each of the following to its lowest term: $\frac{68}{17}$ (ii) $\frac{150}{50}$ (iii) $\frac{162}{108}$

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40. which is larger $\frac{3}{4}$ or $\frac{5}{12}$?

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41. Arrange the following fractions $i7n$ ascending order $\frac{5}{8}, \frac{5}{6}, \frac{7}{4}, \frac{3}{5}$

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42. Compare $\frac{7}{8}$ and $\frac{5}{6}$

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43. Rafiq exercised for  \frac{3}{6}

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44. Arrange the following fractions in descending order $\frac{3}{8}, \frac{5}{6}, \frac{2}{4}, \frac{1}{3}, \frac{6}{8}$

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45. In a class A of 25 students, 20 passed in first class; in another class B of 30 students, 24 passed in first class. In which class was a greater fraction of students getting first class?

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46. Write each fraction. Arrange them in ascending and descending order using correct sign $\langle, \ =, \ \rangle$ (i) $\frac{3}{5}, \frac{1}{5}, \frac{4}{5}, \frac{2}{5}$ (ii) $\frac{2}{5}, \frac{3}{4}, \frac{1}{2}, \frac{3}{5}$

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47. Mark $\frac{2}{6}, \frac{4}{6}, \frac{8}{6}$ and $\frac{6}{6}$ on the number line and put appropriate signs between fractions given below:

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48. Compare the following fractions and put an appropriate sign: $\frac{3}{62}$ (ii) $\frac{3}{60}$ (iii) $\frac{1}{66}$ (iv) $\frac{8}{65}$

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49. Compare the following fractions and put an appropriate sign:

(i) $\frac{3}{6}, \frac{5}{6}$

(ii) $\frac{4}{5}, \frac{0}{5}$

(iii) $\frac{3}{20}, \frac{4}{20}$

(iv) $\frac{1}{7}, \frac{1}{4}$

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50. Compare the following fractions using the symbol $>$ or $<$: $\frac{6}{7} and \frac{6}{11}$ (ii) $\frac{3}{7} and \frac{5}{7}$ $\frac{2}{3} and \frac{8}{12}$ (iv) $\frac{1}{5} and \frac{4}{15}$

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51. Compare the following fractions using the symbol $>$ or $<$: $\frac{8}{3} and \frac{8}{13}$ (ii) $\frac{4}{9}$ and $\frac{15}{8}$

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52. The following fractions represent just three different numbers. Separate them into three groups of equivalent fractions, by changing each one to its simplest form. (a)  \frac{2}{{12}}

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53. The following fractions represent just three different numbers. Separate them in to three groups of equal fractions by changing each one to its simplest form: $\frac{12}{75}$ (ii) $\frac{12}{72}$ (iii) $\frac{3}{18}$ (iv) $\frac{4}{25}$

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54. Isha read 25 pages of a book containing 100 pages. Nagma read $\frac{1}{2}$ of the same book. Who read less?

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55. Arrange the following fractions in the ascending order: $\frac{2}{9}, \frac{7}{9}, \frac{3}{9}, \frac{4}{9}, \frac{1}{9}, \frac{6}{9}, \frac{5}{9}$ (ii) $\frac{7}{8}, \frac{7}{25}, \frac{7}{11}, \frac{7}{18}, \frac{7}{10}$

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56. Arrange in descending order in each of the following using the symbol > : $\frac{8}{17}, \frac{8}{9}, \frac{8}{5}, \frac{8}{13}$ (iii) $\frac{5}{9}, \frac{3}{12}, \frac{1}{3}, \frac{4}{15}$ (iii) $\frac{2}{7}, \frac{11}{35}, \frac{9}{14}, \frac{13}{28}$

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57. Find answers to the following. Write and indicate how you solved them. (a) Is  \frac{5}{9}

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58. Find answers to the following. Write and indicate how you solved them. Is $\frac{4}{5}$ equal to $\frac{16}{20}$? (ii) Is $\frac{1}{15}$ equal to $\frac{4}{30}$?

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59. Add the following fractions: $\frac{1}{6}+\frac{4}{6}$ (ii) $\frac{2}{7}+\frac{3}{7}+\frac{4}{7}$

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60. Add the following fractions: $2\frac{3}{5}+\frac{4}{5}+1\frac{2}{5}$

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

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61. Subtract $\frac{3}{10}$ $From$ $\frac{8}{10}$

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62. Compute: $\frac{5}{12} - \frac{7}{12} + \frac{11}{12}$

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63. Simplify : $4\frac{2}{3} + \frac{1}{3} - 4\frac{1}{3}$

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64. Solve : $\frac{5}{12} + \frac{1}{12}$

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65. Solve : $\frac{3}{15} + \frac{7}{15}$

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66. Solve : $\frac{3}{22} + \frac{7}{22}$

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67. Solve : $\frac{1}{4} + \frac{0}{4}$

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68. Solve : $\frac{4}{13}+\frac{2}{13}+\frac{1}{13}$

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69. Solve : $\frac{0}{15}+\frac{2}{15}+\frac{1}{15}$

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70. Solve : $\frac{7}{31}-\frac{4}{31}+\frac{9}{31}$

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71. Solve : $3\frac{2}{7} + \frac{1}{7} - 2\frac{3}{7}$

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72. Solve : $2\frac{1}{3} - 1\frac{2}{3} + 4\frac{1}{3}$

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73. Solve : $1 - \frac{2}{3} + \frac{7}{3}$

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74. Solve : $\frac{16}{7} - \frac{5}{7} + \frac{9}{7}$

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75. Shikha painted $\frac{1}{5}$ of the wall space in her room. Her brother Ravish helped and painted $\frac{3}{5}$ of the wall space. How much did they paint together? How much the room is left unpainted?

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76. Ramesh bought $2\frac{1}{2}$ kg sugar whereas Rohit bought $3\frac{1}{2}$ kg of sugar. Find the total amount of sugar bought by both of them.

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77. The teacher taught $\frac{3}{5}$ of the book, Vivek revised $\frac{1}{5}$ more on his own. How much does he still have to revise?

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78. Javed was given \frac{5}{7}

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79. Fill in the missing fractions: $\frac{7}{10} - (\ ) = \frac{3}{10}$

(ii) $(\ ) - \frac{3}{6} = \frac{3}{6}$ $(\ ) - \frac{3}{6} = \frac{3}{6}$ (iv)

$(\ ) - \frac{5}{27} = \frac{12}{27}$.

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80. Add: $\frac{3}{8} + \frac{1}{2}$ (ii) $\frac{1}{6} + \frac{3}{8}$

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81. Add: $2\frac{4}{5}\ and\ 3\frac{5}{6}$

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82. Simplify: $8\frac{1}{4} - 2\frac{5}{6}$

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83. Find the sum: $\frac{5}{9} + 6 + 1\frac{5}{7}$

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84. Simplify: $4\frac{2}{3} - 3\frac{1}{4} + 2\frac{1}{6}$

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85. Find the difference of $\frac{17}{24}$ and $\frac{15}{16}$

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86. Add: $\frac{3}{4}$ and $\frac{5}{6}$

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87. Add: $\frac{7}{10} and \frac{2}{15}$

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88. Add: $\frac{8}{13}$ and $\frac{2}{3}$

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89. Add: $\frac{4}{5}$ and $\frac{7}{15}$

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90. Subtract: $\frac{2}{7}$ $\mathfrak{o}m$ $\frac{19}{21}$

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91. Subtract: $\frac{21}{25}$ $\mathfrak{o}m$ $\frac{18}{20}$

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92. Subtract: $\frac{7}{16}$ $\mathfrak{o}m$ $\frac{18}{20}$

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93. Subtract: $\frac{4}{15}$ om $2\frac{1}{5}$

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94. Find the difference of : $\frac{13}{24}$ and $\frac{7}{16}$

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95. Find the difference of : $\frac{5}{18}$ and $\frac{4}{15}$

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96. Find the difference of : $\frac{1}{12}$ and $\frac{3}{4}$

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97. Find the difference of : $\frac{2}{3}$ and $\frac{6}{7}$

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98. Subtract as indicated: $\frac{8}{3} - \frac{5}{9}$

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99. Subtract as indicated: $4\frac{2}{5} - 2\frac{1}{5}$

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100. Subtract as indicated: $5\frac{6}{7} - 2\frac{2}{3}$

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101. Subtract as indicated: $4\frac{3}{4} - 2\frac{1}{6}$

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102. Simplify: $\frac{2}{3} + \frac{3}{4} + \frac{1}{2}$

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103. Simplify: $\frac{5}{8} + \frac{2}{5} + \frac{3}{4}$

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104. Simplify: $\frac{3}{10} + \frac{7}{15} + \frac{3}{5}$

Watch Video Solution

105. Simplify: $\frac{3}{4} + \frac{7}{16} + \frac{5}{8}$

Watch Video Solution

106. Simplify: $4\frac{2}{3} + 3\frac{1}{4} + 7\frac{1}{2}$

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107. Simplify: $7\frac{1}{3} + 3\frac{2}{3} + 5\frac{1}{6}$

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108. Simplify: $7 + \frac{7}{4} + 5\frac{1}{6}$

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109. Simplify: $\frac{5}{6} + 3 + \frac{3}{4}$

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110. Simplify: $\frac{7}{18} + \frac{5}{6} + 1\frac{1}{12}$

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111. Replace ( ) by the correct number:

$( ) - \frac{5}{8} = \frac{1}{4}$ (ii) $( ) - \frac{1}{5} = \frac{1}{2}$ $\frac{1}{2} - ( ) = \frac{1}{6}$

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112. Sarita bought  \frac{2}{5}

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113. Ravish takes $2\frac{1}{5}$ minutes to walk across the school ground. Rahul takes $\frac{7}{4}$ minutes to do the same. Who takes less time and by what fraction?

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114. A piece of wire  \frac{7}{8}

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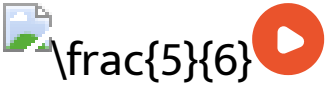
115. Asha and Samuel have bookshelves of the same size partly filled with books. Ashas shelf is 

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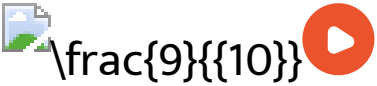
116. Nandinis house is 

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117. Which of the following is a proper fraction?

$\frac{4}{3}$ (b) $\frac{3}{4}$ (c) $1\frac{3}{4}$ (d) $2\frac{1}{5}$

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118. Which of the following is an improper fraction?

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119. Which of the following is a fraction equivalent to $\frac{2}{3}$? $\frac{4}{5}$ (b) $\frac{8}{6}$ (c) $\frac{10}{25}$ (d) $\frac{10}{15}$

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120. A fraction equivalent to $\frac{3}{5}$ is $\frac{3+2}{5+2}$ (b) $\frac{3-2}{5-2}$ (c) $\frac{3\,x\,2}{5\,x\,2}$ (d) None of these

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121. If $\frac{5}{12}$ is equivalent to $\frac{x}{3}$, then $x = \frac{5}{4}$ (b) $\frac{4}{5}$ (c) $\frac{5}{3}$ (d) $\frac{3}{5}$

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122. Which of the following are like fractions?

$\frac{3}{5}, \frac{3}{7}, \frac{3}{11}, \frac{3}{16}$ (b) $\frac{5}{11}, \frac{7}{11}, \frac{15}{11}, \frac{2}{11}$

$\frac{2}{3}, \frac{3}{4}, \frac{4}{5}, \frac{6}{7}$ (d) None of these

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123. If $\frac{11}{4} = \frac{77}{x}$, then $x =$ 28 (b) $\frac{77}{28}$ (c) 44 (d) 308

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124. $\frac{1}{\left(2\frac{1}{3}\right)}+\frac{1}{\left(1\frac{3}{4}\right)}$ is equal to $\frac{7}{14}$ (b) $\frac{12}{49}$ (c) $4\frac{1}{12}$ (d) None of these

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125. If $\frac{1}{3}+\frac{1}{2}+\frac{1}{x}=4$, then $x=?$ $\frac{5}{18}$ (b) $\frac{6}{19}$ (c) $\frac{18}{5}$ (d) $\frac{24}{11}$

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126. If $\frac{1}{2}+\frac{1}{x}=2$, then $x=$ $\frac{2}{5}$ (b) $\frac{5}{2}$ (c) $\frac{3}{2}$ (d) $\frac{2}{3}$

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127. Which of the following fractions is the smallest? $\frac{1}{2}, \frac{3}{7}, \frac{3}{5}, \frac{4}{9}$ $\frac{4}{9}$ (b) $\frac{3}{5}$ (c) $\frac{3}{7}$ (d) $\frac{1}{2}$

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128. Which of the following fractions is the greatest of all? $\frac{7}{8}, \frac{6}{7}, \frac{4}{5}, \frac{5}{6}$ $\frac{6}{7}$ (b) $\frac{4}{5}$ (c) $\frac{5}{6}$ (d) $\frac{7}{8}$

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129. What is the value of $\frac{a+b}{a-b}$, if $\frac{a}{b}=4$? $\frac{3}{5}$ (b) $\frac{5}{3}$ (c) $\frac{4}{5}$ (d) $\frac{5}{4}$

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130. If $\frac{a}{b} = \frac{4}{3}$, then the value of $\frac{6a + 4b}{6a - 5b}$ is -1

(b) 3 (c) 4 (d) 5

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131. If $\frac{1}{5} - \frac{1}{6} = \frac{4}{x}$, then $x = \ -120$ (b) -100

(c) 100 (d) 120

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132. The fraction to be added to $6\frac{7}{15}$ to get $8\frac{1}{5}$ is equal to $\frac{11}{15}$ (b) $1\frac{1}{15}$ (c) $\frac{44}{3}$ (d) $\frac{3}{44}$

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133. If $\frac{45}{60}$ is equivalent to $\frac{3}{x}$, then $x =$ 5 (b) (4) (c) 6 (d) 20

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134. A fraction equivalent to $\frac{45}{105}$ is $\frac{6}{14}$ (b) $\frac{4}{7}$ (c) $\frac{5}{7}$ (d) $\frac{7}{5}$

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135. $\frac{5}{8}+\frac{3}{4}-\frac{7}{12}$ is equal to: $\frac{15}{24}$ (b) $\frac{17}{24}$ (c) $\frac{19}{24}$ (d) $\frac{21}{24}$

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136. The correct fraction in the box $( )\ is\ ( ) - \frac{5}{8} = \frac{1}{4}\ \frac{6}{8}$ (b) $\frac{7}{8}$ (c) $\frac{1}{2}$ (d) None of these

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137. A fraction equivalent to $\frac{2}{3}$ is $\frac{2+3}{3+3}$ (b) $\frac{2-1}{3-1}$ (c) $\frac{2\ x\ 5}{3\ x\ 5}$ (d) $\frac{2+5}{3+5}$

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138. A fraction equivalent to $\frac{8}{12}$ is $\frac{8+4}{12+4}$ (b) $\frac{8 \div 4}{12 \div 4}$ (c) $\frac{8-4}{12-4}$ (d) None of these

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139. A fraction equivalent to $\frac{30}{45}$ is $\frac{3}{4}$ (b) $\frac{3}{2}$ (d) $\frac{2}{3}$ (d) None of these

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140. Which of the following is a proper fraction?

$\frac{3}{5}$ (b) $\frac{5}{3}$ (c) $1\frac{2}{3}$ (d) None of these

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141. Which of the following is a proper fraction?

$\frac{3}{5}$ (b) $\frac{5}{3}$ (c) $1\frac{2}{3}$ (d) None of these

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142. $\frac{34}{13}$ is an example of a proper fraction (b) an improper fraction a mixed fraction (d) None of these

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143. Which of the following fraction is the smallest? $\frac{5}{9}, \frac{4}{9}, \frac{2}{9}, \frac{11}{9}$ $\frac{11}{9}$ (b) $\frac{4}{9}$ (c) $\frac{5}{9}$ (d) $\frac{2}{9}$

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144. The smallest of the fractions $\frac{3}{5}, \frac{2}{3}, \frac{5}{6}, \frac{7}{10}$, is $\frac{2}{3}$ (b) $\frac{3}{5}$ (c) $\frac{5}{6}$ (d) $\frac{7}{10}$

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145. If $\frac{3}{4}$ is equivalent to $\frac{x}{28}$, then the value of x is 6 (b) 7 (c) 8 (d) 9

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146. If $\frac{45}{60}$ is equivalent to $\frac{3}{x}$, then the value of x is 3 (b) 6 (c) 4 (d) 9

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147. $\frac{1}{3}+\frac{1}{x}=3$, then $x=$ $\frac{7}{3}$ (b) $\frac{2}{3}$ (c) $\frac{4}{3}$ (d) $\frac{8}{3}$

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148. Javed was given  \frac{5}{7}

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149. Reduce $84/98$ to its lowest terms.

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150. The cost of a pen is Rs.$16\left(\frac{3}{5}\right)$ and that of a pencil is Rs. $4\left(\frac{3}{4}\right)$. Which costs more and by how much?

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151. Simplify: $5\frac{1}{6} - 3\frac{1}{4} + 3\frac{1}{3} + 4$

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152. Three boxes weigh $\frac{\frac{18}{3}}{4} kg$, $7\frac{1}{2} kg$ *and* $10\frac{1}{5}$ kg respectively. A porter carries all the three boxes. What is the total weight carried by the porter?

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153. Arrange the following fractions in ascending order: $\frac{13}{18}, \frac{8}{15}, \frac{17}{24}, \frac{7}{12}$

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154. Subtract the sum of $\frac{2}{3} and \frac{1}{2}$ from the sum of $\frac{5}{6}, \frac{7}{12} and \frac{4}{15}$

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155. Shika bought $7\frac{1}{2}$ litres of milk. Out of this milk, $5\frac{3}{4}$ litres was consumed. How much milk is left with her?

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156. Simplify: $3 + 1\frac{1}{5} + \frac{2}{3} - \frac{7}{15}$

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157. Fill in the blanks: $7\frac{2}{3} + \quad = 9$

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158. Fill in the blanks: $8\frac{1}{8} - \quad = \frac{7}{8}$

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159. $6\frac{1}{6} - 5\frac{1}{5} =$

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160. $\frac{90}{108}$ reduced to simplest form .....

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161. $9\frac{2}{3} + \ = 19$

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