MATHS

BOOKS - PSEB

Fractions and decimals

Examples

1. Solve:

$2 - \frac{3}{5}$

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2. Solve:

$$4 + \frac{7}{8}$$

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3. Solve:

$$\frac{3}{5} + \frac{2}{7}$$

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4. Solve:

$$\frac{9}{11} - \frac{4}{15}$$

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5. Solve:

$$\frac{7}{10} + \frac{2}{5} + \frac{3}{2}$$

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6. Solve:

$$2\frac{2}{3} + 3\frac{1}{2}$$

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7. Solve:

$$8\frac{1}{2} - 3\frac{5}{8}$$

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8. Arrange the following in descending order:

$\frac{2}{9}, \frac{2}{3}, \frac{8}{21}$

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9. Arrange the following in descending order:

$\frac{1}{5}, \frac{3}{7}, \frac{7}{10}$

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10. In a "magic square", the sum of the number in each row, in each column and along the diagonals is the same. Is this a magic square?

$\frac{4}{11}$	$\frac{9}{11}$	$\frac{2}{11}$
$\frac{3}{11}$	$\frac{5}{11}$	$\frac{7}{11}$
$\frac{8}{11}$	$\frac{1}{11}$	$\frac{6}{11}$

(Along the first row $\frac{4}{11} + \frac{9}{11} + \frac{2}{11} = \frac{15}{11}$).

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11. A rectangular sheet of paper is $12\frac{1}{2}cm$ long and $10\frac{2}{3}cm$ wide. Find its perimeter.

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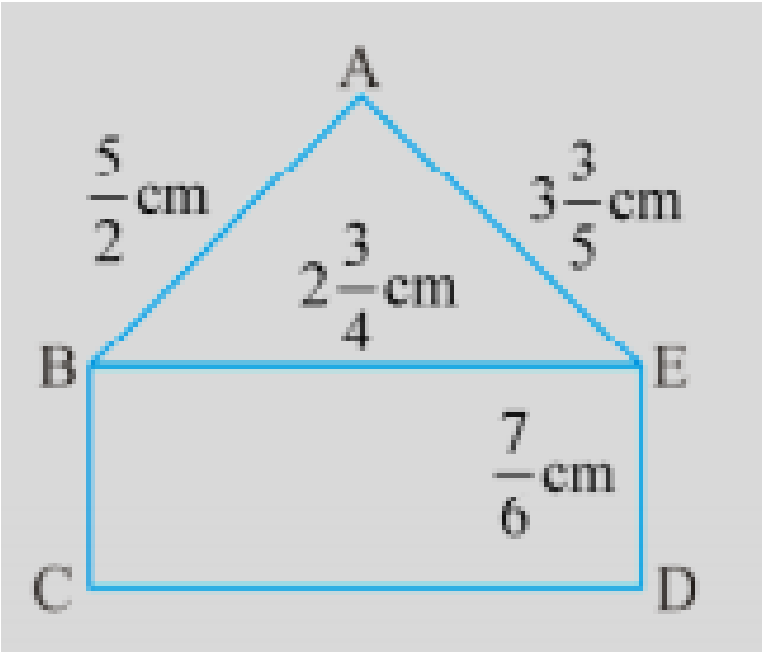
12. Find the perimeter of



$\triangle ABE$

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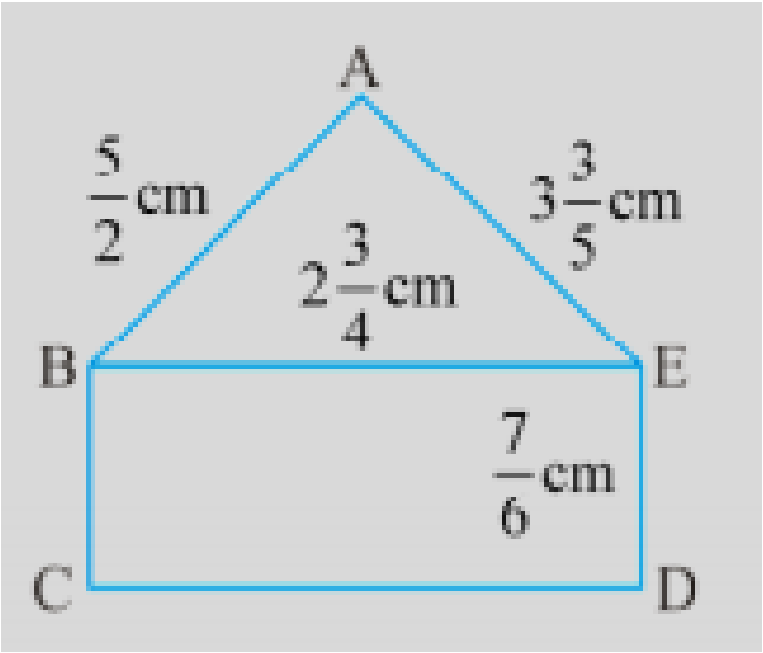
13. Find the perimeter of



the rectangle BCDE in this figure.

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14. Salil wants to put a picture in a frame. The picture is $7\frac{3}{5}cm$ wide. To fit in the frame the picture cannot be more than $7\frac{3}{10}cm$ wide. How much should the picture be trimmed?

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15. Ritu ate $\frac{3}{5}$ part of an apple and remaining apple was eaten by her brother Somu. How much part of the apple did Somu eat? Who had the larger share? By how much?

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16. Michael finished colouring a picture in $\frac{7}{12}$ hour. Vaibhav finished coluring the same picture in $\frac{3}{4}$ hour. Who worked longer? By what fraction was it longer?

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17. In a class of 40 students $\frac{1}{5}$ of the total number of students like to study English, $\frac{2}{5}$ of the total number like to study Mathematics

and the remaining students like to study Science.

How many students like to study English?

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18. In a class of 40 students $\frac{1}{5}$ of the total number of students like to study English, $\frac{2}{5}$ of the total number like to study Mathematics and the remaining students like to study Science.

How many students like to study Mathematics?

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19. In a class of 40 students $\frac{1}{5}$ of the total number of students like to study English, $\frac{2}{5}$ of the total number like to study Mathematics and the remaining students like to study Science.

What fraction of the total number of students like to study Science?

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20. Which of the drawings (a) to (d) show:

$3 \times \frac{2}{3}$

A. 

B. 

C. 

D. 

Answer:

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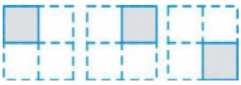
21. Which of the drawings (a) to (d) show:

$3 \times \frac{1}{4}$

A. 

B. 

C. 

D. 

Answer:

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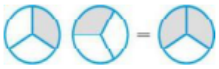
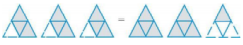
Watch Video Solution

22. Some pictures (a) to (c) are given below.

Tell which of them show:

$3 \times \frac{1}{5} = \frac{3}{5}$

A. 

B. 

C. 

D. 

Answer:

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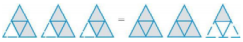
23. Some pictures (a) to (c) are given below.

Tell which of them show:

$$2 \times \frac{1}{3} = \frac{2}{3}$$

A. 

B. 

C. 

D. 

Answer:

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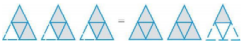
24. Some pictures (a) to (c) are given below.

Tell which of them show:

$3 \times \frac{3}{4} = 2\frac{1}{4}$

A. 

B. 

C. 

D. 

Answer:

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25. Multiply and reduce to lowest form and convert into a mixed fraction:

$7 \times \frac{3}{5}$

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26. Multiply and reduce to lowest form and convert into a mixed fraction:

$4 \times \frac{1}{3}$

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27. Multiply and reduce to lowest form and convert into a mixed fraction:

$2 \times \frac{6}{7}$

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28. Multiply and reduce to lowest form and convert into a mixed fraction:

$5 \times \frac{2}{9}$

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29. Multiply and reduce to lowest form and convert into a mixed fraction:

$$\frac{2}{3} \times 4$$

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30. Multiply and reduce to lowest form and convert into a mixed fraction:

$$\frac{45}{2} \times 6$$

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31. Multiply and reduce to lowest form and convert into a mixed fraction:

$11 \times \frac{4}{7}$

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32. Multiply and reduce to lowest form and convert into a mixed fraction:

$20 \times \frac{4}{5}$

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33. Multiply and reduce to lowest form and convert into a mixed fraction:

$13 \times \frac{1}{3}$

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34. Multiply and reduce to lowest form and convert into a mixed fraction:

$15 \times \frac{3}{5}$

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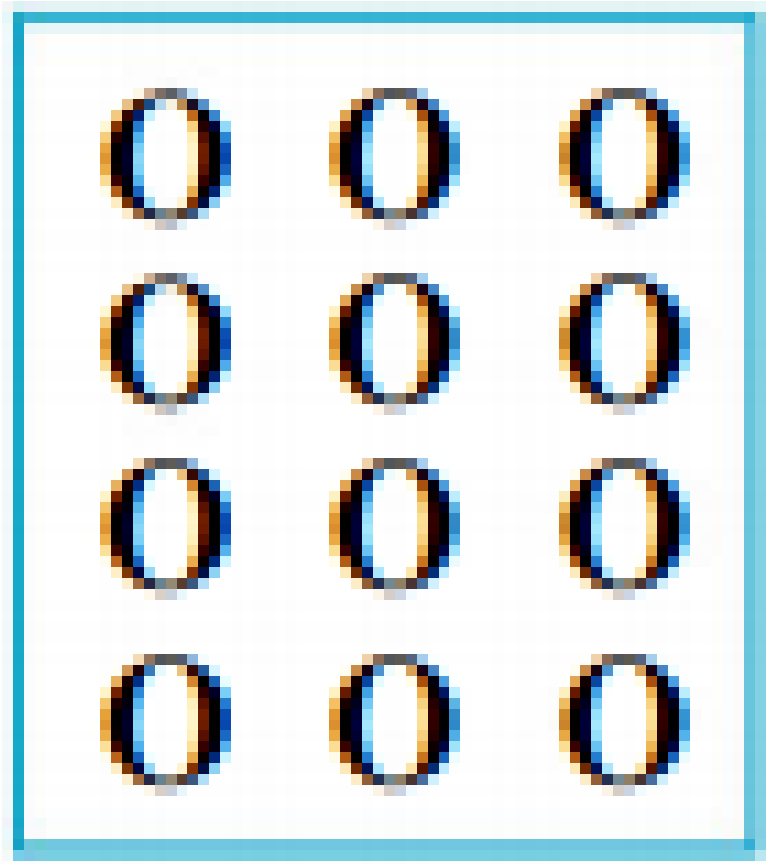
35. Shade:

$\frac{1}{2}$ of the circles in box



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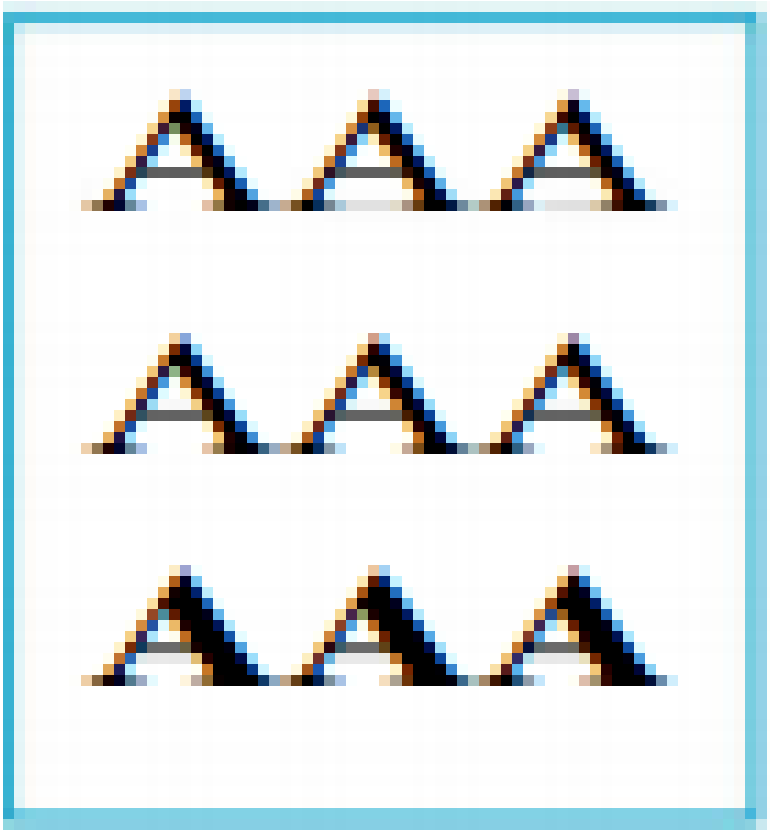
36. Shade:

$\frac{2}{3}$ of the traingles in box



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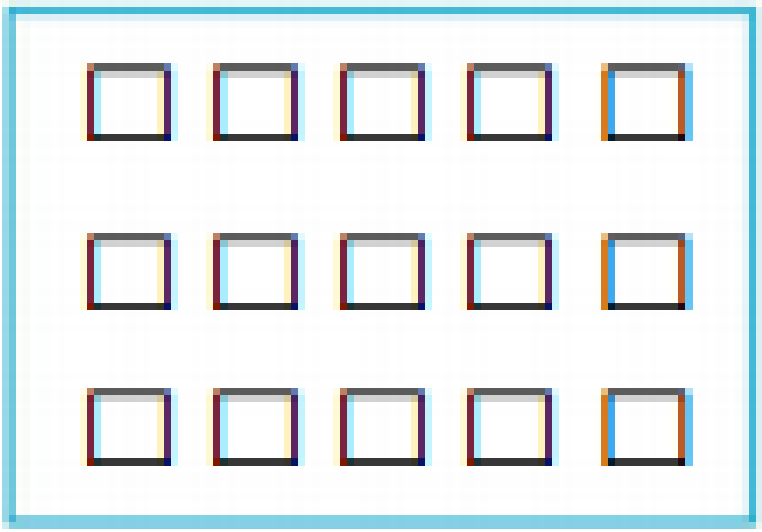
37. Shade:

$\frac{3}{5}$ of the squares in box.



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38. Find :

$\frac{1}{2}$ of

24

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39. Find :

$\frac{1}{2}$ of 46

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40. Find:

$\frac{2}{3}$ of 18

Watch Video Solution

41. Find:

$\frac{2}{3}$ of 27

Watch Video Solution

42. Find:

$\frac{3}{4}$ of 16

Watch Video Solution

43. Find:

$\frac{3}{4}$ of 36

Watch Video Solution

44. Find:

$\frac{4}{5}$ of 20

Watch Video Solution

45. Find:

$\frac{4}{5}$ of 35

Watch Video Solution

46. Multiply and express as a mixed fraction:

$3 \times 5\frac{1}{5}$

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47. Multiply and express as a mixed fraction:

$5 \times 6\frac{3}{4}$

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48. Multiply and express as a mixed fraction:

$7 \times 2\frac{1}{4}$

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49. Multiply and express as a mixed fraction:

$4 \times 6\frac{1}{3}$

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50. Multiply and express as a mixed fraction:

$3\frac{1}{4} \times 6$

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51. Multiply and express as a mixed fraction: $3\frac{2}{5} \times 8$

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52. Find: $\frac{1}{2}$ of $2\frac{3}{4}$

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53. Find: $\frac{1}{2}$ of $4\frac{2}{9}$`

Watch Video Solution

54. Find: $\frac{5}{8}$ of $3\frac{5}{6}$

Watch Video Solution

55. Find: $\frac{5}{8}$ of $9\frac{2}{3}$

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56. Vidya and Pratap went for a picnic. Their mother gave them a water bottle that contained 5 litres of water. Vidya consumed $\frac{2}{5}$ of the water. Pratap consumed the remaining water.

How much water did Vidya drink?

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57. Vidya and Pratap went for a picnic. Their mother gave them a water bottle that

contained 5 litres of water. Vidya consumed $\frac{2}{5}$ of the water. Pratap consumed the remaining water.

What fraction of the total quantity of water did Pratap drink?

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58. Sushant reads $\frac{1}{3}$ part of a book in 1 hour. How much part of the book will he read in $2\frac{1}{5}$ hours?

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59. Find :

$\frac{1}{4}$ of $\frac{1}{4}$

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60. Find :

$\frac{1}{4}$ of $\frac{3}{5}$

Watch Video Solution

61. Find :

$\frac{1}{4}$ of $\frac{4}{3}$

Watch Video Solution

62. Find :

$\frac{1}{7}$ of $\frac{2}{9}$

Watch Video Solution

63. Find :

$\frac{1}{7}$ of $\frac{6}{5}$

Watch Video Solution

64. Find :

$\frac{1}{7}$ of $\frac{3}{10}$

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65. Multiply and reduce to lowest form (if possible) :

$$\frac{2}{3} \times 2\frac{2}{3}$$

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66. Multiply and reduce to lowest form (if possible) :

$$\frac{2}{7} \times \frac{7}{9}$$

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67. Multiply and reduce to lowest form (if possible) :

$$\frac{3}{8} \times \frac{6}{4}$$

Watch Video Solution

68. Multiply and reduce to lowest form (if possible) :

$$\frac{9}{5} \times \frac{3}{5}$$

Watch Video Solution

69. Multiply and reduce to lowest form (if possible) :

$$\frac{1}{3} \times \frac{15}{8}$$

Watch Video Solution

70. Multiply and reduce to lowest form (if possible) :

$$\frac{11}{2} \times \frac{3}{10}$$

Watch Video Solution

71. Multiply and reduce to lowest form (if possible) :

$$\frac{4}{5} \times \frac{12}{7}$$

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72. Multiply the following fractions:

$$\frac{2}{5} \times 5\frac{1}{4}$$

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73. Multiply the following fractions:

$$6\frac{2}{5} \times \frac{7}{9}$$

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74. Multiply the following fractions:

$$\frac{3}{2} \times 5\frac{1}{3}$$

Watch Video Solution

75. Multiply the following fractions:

$$\frac{5}{6} \times 2\frac{3}{7}$$

Watch Video Solution

76. Multiply the following fractions:

$$3\frac{2}{5} \times \frac{4}{7}$$

Watch Video Solution

77. Multiply the following fractions:

$$2\frac{3}{5} \times 3$$

Watch Video Solution

78. Multiply the following fractions:

$$3\frac{4}{7} \times \frac{3}{5}$$

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79. Which is greater:

$$\frac{2}{7} of \frac{3}{4} \text{ or } \frac{3}{5} of \frac{5}{8}$$

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80. Which is greater:

$$\frac{1}{2} of \frac{6}{7} \text{ or } \frac{2}{3} of \frac{3}{7}$$

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81. Saili plants 4 saplings, in a row, in her garden. The distance between two adjacent saplings is $\frac{3}{4}m$. Find the distance between the first and the last sapling.

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82. Lipika reads a book for $1\frac{3}{4}$ hours everyday. She reads the entire book in 6 days. How many hours in all were required by her to read the book?

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83. A car runs 16 km using 1 litre of petrol. How much distance will it cover using $2\frac{3}{4}$ litres of petrol.

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84. Provide the number in the box $\square$, such that $\frac{2}{3} \times \square = \frac{10}{30}$

The simplest form of the number obtained in $\square$ is ___.

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85. Provide the number in the box, such that $\frac{3}{5} \times \square = \frac{24}{75}.,$

The simplest form of the number obtained in $\square$ is___ .

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86. Will the reciprocal of a proper fraction be again a proper fraction?

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87. Will the reciprocal of an improper fraction be again an improper fraction?

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88. Find:

$6 \div 5\frac{1}{3}$

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89. Find:

$7 \div 2\frac{4}{7}$

Watch Video Solution

90. Find:

$12 \div \frac{3}{4}$

Watch Video Solution

91. Find:

$14 \div \frac{5}{6}$

Watch Video Solution

92. Find:

$8 \div \frac{7}{3}$

Watch Video Solution

93. Find:

$4 \div \frac{8}{3}$

Watch Video Solution

94. Find:

$3 \div 2\frac{1}{3}$

Watch Video Solution

95. Find:

$5 \div 3\frac{4}{7}$

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96. Find the reciprocal of each of the following fractions. Classify the reciprocals as proper fractions, improper fractions and whole numbers.

$\frac{3}{7}$

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97. Find the reciprocal of each of the following fractions. Classify the reciprocals as proper fractions, improper fractions and whole

numbers.

$\frac{5}{8}$

Watch Video Solution

98. Find the reciprocal of each of the following fractions. Classify the reciprocals as proper fractions, improper fractions and whole numbers.

$\frac{9}{7}$

Watch Video Solution

99. Find the reciprocal of each of the following fractions. Classify the reciprocals as proper fractions, improper fractions and whole numbers.

$\frac{6}{5}$

Watch Video Solution

100. Find the reciprocal of each of the following fractions. Classify the reciprocals as proper fractions, improper fractions and

whole numbers.

$$\frac{12}{7}$$

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101. Find the reciprocal of each of the following fractions. Classify the reciprocals as proper fractions, improper fractions and whole numbers.

$$\frac{1}{8}$$

Watch Video Solution

102. Find the reciprocal of each of the following fractions. Classify the reciprocals as proper fractions, improper fractions and whole numbers.

$\frac{1}{11}$

Watch Video Solution

103. Find:

$\frac{7}{3} \div 2$

Watch Video Solution

104. Find:

$$\frac{4}{9} \div 5$$

Watch Video Solution

105. Find:

$$\frac{6}{13} \div 7$$

Watch Video Solution

106. Find:

$$4\frac{1}{3} \div 3$$

Watch Video Solution

107. Find:

$$3\frac{1}{2} \div 4$$

Watch Video Solution

108. Find:

$4\frac{3}{7} \div 7$

Watch Video Solution

109. Find:

$\frac{2}{5} \div \frac{1}{2}$

Watch Video Solution

110. Find:

$$\frac{4}{9} \div \frac{2}{3}$$

Watch Video Solution

111. Find:

$$\frac{3}{7} \div \frac{8}{7}$$

Watch Video Solution

112. Find:

$$2\frac{1}{3} \div \frac{3}{5}$$

Watch Video Solution

113. Find:

$$3\frac{1}{2} \div \frac{8}{3}$$

Watch Video Solution

114. Find:

$$\frac{2}{5} \div 1\frac{1}{2}$$

Watch Video Solution

115. Find:

$$3\frac{1}{5} \div 1\frac{2}{3}$$

Watch Video Solution

116. Find:

$$2\frac{1}{5} \div 1\frac{1}{5}$$

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117. Which is greater?

0.5 or 0.05

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118. Which is greater?

0.7 or 0.5

Watch Video Solution

119. Which is greater?

7 or 0.7

Watch Video Solution

120. Which is greater?

1.37 or 1.49

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121. Which is greater?

2.03 or 2.30

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122. Which is greater?

0.8 or 0.88

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123. Express as rupees using decimals :

7 paise

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124. Express as rupees using decimals :

7 rupees 7 paise

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125. Express as rupees using decimals :

77 rupees 77 paise

Watch Video Solution

126. Express as rupees using decimals :

50 paise

Watch Video Solution

127. Express as rupees using decimals :

235 paise.

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128. Express 5 cm in metre and kilometre

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129. Express 35 mm in cm, m and km

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130. Express in kg:

200g

Watch Video Solution

131. Express in kg:

3470g

Watch Video Solution

132. Express in kg:

4kg 8 g

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133. Write the following decimal numbers in the expanded form:

20.03

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134. Write the following decimal numbers in the expanded form:

2.03

Watch Video Solution

135. Write the following decimal numbers in the expanded form:

200.03

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136. Write the following decimal numbers in the expanded form:

2.034

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137. Write the place value of 2 in the following decimal numbers:

2.56

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138. Write the place value of 2 in the following decimal numbers:

21.37

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139. Write the place value of 2 in the following decimal numbers:

10.25

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140. Write the place value of 2 in the following decimal numbers:

9.42

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141. Write the place value of 2 in the following decimal numbers:

63.352

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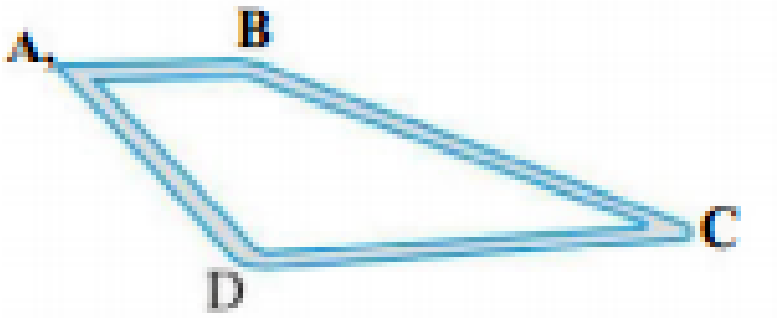
142. Dinesh went from place A to place B and from there to place C. A is 7.5 km from B and B is 12.7 km from C. Ayub went from place A to place D and from there to place C. D is 9.3 km from A and C is 11.8 km from D. Who travelled

more and by how much?



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143. Shyama bought 5 kg 300 g apples and 3 kg 250 g mangoes. Sarala bought 4 kg 800 g oranges and 4 kg 150 g bananas. Who bought more fruits?

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144. How much less is 28 km than 42.6 km?

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145. The side of an equilateral triangle is 3.5 cm. Find its perimeter.

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146. The length of a rectangle is 7.1 cm and its breadth is 2.5 cm. What is the area of the rectangle?

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147. Find:

0.2×6

Watch Video Solution

148. Find:

8×4.6

Watch Video Solution

149. Find:

2.71×5

Watch Video Solution

150. Find:

20.1×4

Watch Video Solution

151. Find:

0.05×7

Watch Video Solution

152. Find:

211.02×4

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153. Find:

2×0.86

Watch Video Solution

154. Find the area of rectangle whose length is 5.7cm and breadth is 3 cm.

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155. Find:

1.3×10

Watch Video Solution

156. Find:

36.8×10

Watch Video Solution

157. Find:

153.7×10

Watch Video Solution

158. Find:

168.07×10

Watch Video Solution

159. Find:

31.1×100

Watch Video Solution

160. Find:

156.1×100

Watch Video Solution

161. Find:

3.62×100

Watch Video Solution

162. Find:

43.07×100

Watch Video Solution

163. Find:

0.5×10

Watch Video Solution

164. Find:

0.08×10

Watch Video Solution

165. Find:

0.9×100

Watch Video Solution

166. Find:

0.03×1000

Watch Video Solution

167. A two-wheeler covers a distance of 55.3 km in one litre of petrol. How much distance will it cover in 10 litres of petrol?

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168. Find:

2.5×0.3

Watch Video Solution

169. Find:

0.1×51.7

Watch Video Solution

170. Find:

0.2×316.8

Watch Video Solution

171. Find:

1.3×3.1

Watch Video Solution

172. Find:

0.5×0.05

Watch Video Solution

173. Find:

11.2×0.15

Watch Video Solution

174. Find:

1.07×0.02

Watch Video Solution

175. Find:

10.05×1.05

Watch Video Solution

176. Find:

101.01×0.01

Watch Video Solution

177. Find:

100.01×1.1

Watch Video Solution

178. Find the average of 4.2, 3.8 and 7.6.

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179. Each side of a regular polygon is 2.5 cm in length. The perimeter of the polygon is 12.5cm. How many sides does the polygon have?

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180. A car covers a distance of 89.1 km in 2.2 hours. What is the average distance covered by it in 1 hour?

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181. Find :

$0.4 \div 2$

Watch Video Solution

182. Find :

$0.35 \div 5$

Watch Video Solution

183. Find :

$2.48 \div 4$

Watch Video Solution

184. Find :

$65.4 \div 6$

Watch Video Solution

185. Find :

$651.2 \div 4$

Watch Video Solution

186. Find :

$14.49 \div 7$

Watch Video Solution

187. Find :

$3.96 \div 4$

Watch Video Solution

188. Find :

$0.80 \div 5$

Watch Video Solution

189. Find:

$4.8 \div 10$

Watch Video Solution

190. Find:

$52.5 \div 10$

Watch Video Solution

191. Find:

$0.7 \div 10$

Watch Video Solution

192. Find:

$33.1 \div 10$

Watch Video Solution

193. Find:

$272.23 \div 10$

Watch Video Solution

194. Find:

$0.56 \div 10$

Watch Video Solution

195. Find:

$3.97 \div 10$

Watch Video Solution

196. Find:

$2.7 \div 100$

Watch Video Solution

197. Find:

$0.3 \div 100$

Watch Video Solution

198. Find:

$0.78 \div 100$

Watch Video Solution

199. Find:

$432.6 \div 100$

Watch Video Solution

200. Find:

$23.6 \div 100$

Watch Video Solution

201. Find:

$98.53 \div 100$

Watch Video Solution

202. Find :

$7.9 \div 1000$

Watch Video Solution

203. Find :

$26.3 \div 1000$

Watch Video Solution

204. Find :

$38.53 \div 1000$

Watch Video Solution

205. Find :

$128.9 \div 1000$

Watch Video Solution

206. Find :

$0.5 \div 1000$

Watch Video Solution

207. Find:

$7 \div 3.5$

Watch Video Solution

208. Find:

$36 \div 0.2$

Watch Video Solution

209. Find:

$3.25 \div 0.5$

Watch Video Solution

210. Find:

$30.94 \div 0.7$

Watch Video Solution

211. Find:

$0.5 \div 0.25$

Watch Video Solution

212. Find:

$7.75 \div 0.25$

Watch Video Solution

213. Find:

$76.5 \div 0.15$

Watch Video Solution

214. Find:

$37.8 \div 1.4$

Watch Video Solution

215. Find:

$2.73 \div 1.3$

Watch Video Solution

216. A vehicle covers a distance of 43.2 km in 2.4 litres of petrol. How much distance will it cover in one litre of petrol?

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