



Exercise 2B

solution 01

Answer :

$$(i) \frac{3}{5} \times \frac{7}{11} = \frac{3 \times 7}{5 \times 11} = \frac{21}{55}$$

$$(ii) \frac{5}{8} \times \frac{4}{7} = \frac{5 \times 4}{8 \times 7} = \frac{5 \times 1}{2 \times 7} = \frac{5}{14}$$

$$(iii) \frac{4}{9} \times \frac{15}{16} = \frac{4 \times 15}{9 \times 16} = \frac{1 \times 5}{3 \times 4} = \frac{5}{12}$$

$$(iv) \frac{2}{5} \times 15 = \frac{2}{5} \times \frac{15}{1} = \frac{2 \times 15}{5 \times 1} = \frac{2 \times 3}{1 \times 1} = 6$$

$$(v) \frac{8}{15} \times 20 = \frac{8}{15} \times \frac{20}{1} = \frac{8 \times 20}{15 \times 1} = \frac{8 \times 4}{3 \times 1} = \frac{32}{3} = 10 \frac{2}{3}$$

$$(vi) \frac{5}{8} \times 1000 = \frac{5}{8} \times \frac{1000}{1} = \frac{5 \times 1000}{8 \times 1} = \frac{5 \times 125}{1 \times 1} = 625$$

$$(vii) 3 \frac{1}{8} \times 16 = \frac{25}{8} \times \frac{16}{1} = \frac{25 \times 16}{8 \times 1} = \frac{25 \times 2}{1 \times 1} = 50$$

$$(viii) 2 \frac{4}{15} \times 12 = \frac{34}{15} \times \frac{12}{1} = \frac{34 \times 12}{15 \times 1} = \frac{34 \times 4}{5 \times 1} = \frac{136}{5} = 27 \frac{1}{5}$$

$$(ix) 3 \frac{6}{7} \times 4 \frac{2}{3} = \frac{27}{7} \times \frac{14}{3} = \frac{27 \times 14}{7 \times 3} = \frac{9 \times 2}{1 \times 1} = 18$$

$$(x) 9 \frac{1}{2} \times 1 \frac{9}{19} = \frac{19}{2} \times \frac{28}{19} = \frac{19 \times 28}{2 \times 19} = \frac{1 \times 14}{1 \times 1} = 14$$

$$(xi) 4 \frac{1}{8} \times 2 \frac{10}{11} = \frac{33}{8} \times \frac{32}{11} = \frac{33 \times 32}{8 \times 11} = \frac{3 \times 4}{1 \times 1} = 12$$

$$(xii) 5 \frac{5}{6} \times 1 \frac{5}{7} = \frac{35}{6} \times \frac{12}{7} = \frac{35 \times 12}{6 \times 7} = \frac{5 \times 2}{1 \times 1} = 10$$

solution 02

Answer :

We have the following:

$$(i) \frac{2}{3} \times \frac{5}{44} \times \frac{33}{35} = \frac{2 \times 5 \times 33}{3 \times 44 \times 35} = \frac{1 \times 1 \times 11}{1 \times 22 \times 7} = \frac{1 \times 1 \times 1}{1 \times 2 \times 7} = \frac{1}{14}$$

$$(ii) \frac{12}{25} \times \frac{15}{28} \times \frac{35}{36} = \frac{1 \times 3 \times 5}{5 \times 4 \times 3} = \frac{1 \times 1 \times 1}{1 \times 4 \times 1} = \frac{1}{4}$$

$$(iii) \frac{10}{27} \times \frac{28}{65} \times \frac{39}{56} = \frac{10 \times 1 \times 3}{27 \times 5 \times 2} = \frac{1 \times 1 \times 3}{27 \times 1 \times 1} = \frac{3}{27} = \frac{1}{9}$$

$$(iv) 1 \frac{4}{7} \times 1 \frac{13}{22} \times 1 \frac{1}{15}$$

$$= \frac{11}{7} \times \frac{35}{22} \times \frac{16}{15} = \frac{11 \times 35 \times 16}{7 \times 22 \times 15} = \frac{1 \times 5 \times 16}{1 \times 2 \times 15} = \frac{1 \times 1 \times 8}{1 \times 1 \times 3} = \frac{8}{3} = 2 \frac{2}{3}$$

$$(v) 2 \frac{2}{17} \times 7 \frac{2}{9} \times 1 \frac{33}{52}$$

$$= \frac{36}{17} \times \frac{65}{9} \times \frac{85}{52} = \frac{36 \times 65 \times 85}{17 \times 9 \times 52} = \frac{4 \times 5 \times 5}{1 \times 1 \times 4} = \frac{1 \times 5 \times 5}{1 \times 1 \times 1} = 25$$

$$(vi) 3 \frac{1}{16} \times 7 \frac{3}{7} \times 1 \frac{25}{39}$$

$$= \frac{49}{16} \times \frac{52}{7} \times \frac{64}{39} = \frac{7 \times 4 \times 4}{1 \times 1 \times 3} = \frac{112}{3} = 37 \frac{1}{3}$$

solution 03

Answer :

We have the following:

$$(i) \frac{1}{3} \text{ of } 24 = 24 \times \frac{1}{3} = \frac{24}{1} \times \frac{1}{3} = \frac{24 \times 1}{1 \times 3} = 8$$

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