

EXERCISE 14(D)

Point to Remember :

BODMAS :- While simplifying an expressions we can involve six operation in following orders.

B Stands for “**BRACKET**”

O Stands for “**OF**”

D Stands for “**DIVISION**”

M Stands for “**MULTIPLICATION**”

A Stands for “**ADDITION**”

S Stands for “**SUBTRACTION**”

Question 1.

(i) $\frac{3}{7} \times \frac{2}{5}$

(ii) $\frac{4}{9} \times \frac{3}{5}$

(iii) $\frac{5}{12} \times 8$

(iv) $\frac{7}{6}$ of $\frac{3}{14}$

(v) $3\frac{3}{8} \times 3\frac{6}{7}$

(vi) $\frac{1}{2}$ of $\frac{1}{3} \times \frac{3}{4}$ (vii) $\frac{3}{7} \times \frac{5}{9} \times 4\frac{1}{5}$

(viii) $1\frac{1}{3} \times 1\frac{2}{7}$ of $1\frac{1}{4}$

Solution:



$$(i) \frac{3}{7} \times \frac{2}{5} = \frac{3 \times 2}{7 \times 5} = \frac{6}{35}$$

$$(ii) \frac{4}{9} \times \frac{3}{5} = \frac{4 \times 3}{9 \times 5} = \frac{4 \times 1}{3 \times 5} = \frac{4}{15}$$

$$(iii) \frac{5}{12} \times 8 = \frac{5}{12} \times \frac{8}{1} = \frac{5 \times 2}{3 \times 1} = \frac{10}{3} = 3\frac{1}{3}$$

$$(iv) \frac{7}{6} \text{ of } \frac{3}{14} = \frac{7}{6} \times \frac{3}{14} = \frac{3 \times 1}{2 \times 1} = \frac{1}{4}$$

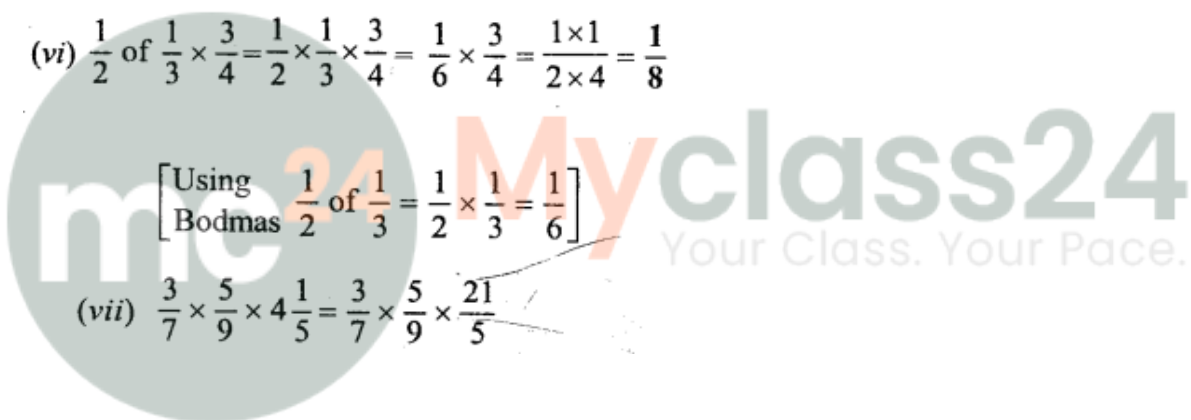
$$(v) 3\frac{3}{8} \times 3\frac{6}{7} = \frac{27}{8} \times \frac{27}{7}$$

$$= \frac{27 \times 27}{8 \times 7} = \frac{729}{56} = 13\frac{1}{56}$$

$$(vi) \frac{1}{2} \text{ of } \frac{1}{3} \times \frac{3}{4} = \frac{1}{2} \times \frac{1}{3} \times \frac{3}{4} = \frac{1}{6} \times \frac{3}{4} = \frac{1 \times 1}{2 \times 4} = \frac{1}{8}$$

[Using Bodmas $\frac{1}{2} \text{ of } \frac{1}{3} = \frac{1}{2} \times \frac{1}{3} = \frac{1}{6}$]

$$(vii) \frac{3}{7} \times \frac{5}{9} \times 4\frac{1}{5} = \frac{3}{7} \times \frac{5}{9} \times \frac{21}{5}$$



$$= \frac{3 \times 5 \times 21}{7 \times 9 \times 5} = 1$$

$$\begin{aligned} \text{(viii)} \quad 1\frac{1}{3} \times 1\frac{2}{7} \text{ of } 1\frac{1}{4} &= \frac{4}{3} \times \frac{9}{7} \times \frac{5}{4} \\ &= \frac{4 \times 9 \times 5}{3 \times 7 \times 4} = \frac{15}{7} = 2\frac{1}{7} \end{aligned}$$

Question 2.

Simplify :

$$\text{(i)} \quad \frac{2}{3} \div 1\frac{1}{5} \qquad \text{(ii)} \quad 4\frac{1}{2} \div \frac{4}{9}$$

$$\text{(iii)} \quad 1 \div \frac{2}{5} \qquad \text{(iv)} \quad \frac{4}{9} \div \frac{4}{9}$$

$$\text{(v)} \quad 2\frac{1}{3} \div 1\frac{3}{4}$$

$$\text{(vi)} \quad 2\frac{2}{3} \times 3\frac{1}{2} \div 2\frac{4}{9}$$

Solution:

$$\text{(i)} \quad \frac{2}{3} \div 1\frac{1}{5} = \frac{2}{3} \div \frac{6}{5} = \frac{2}{3} \times \frac{5}{6} = \frac{2 \times 5}{3 \times 6} = \frac{5}{9}$$

$$\begin{aligned} \text{(ii)} \quad 4\frac{1}{2} \div \frac{4}{9} &= \frac{9}{2} \div \frac{4}{9} = \frac{9}{2} \times \frac{9}{4} = \frac{9 \times 9}{2 \times 4} \\ &= \frac{81}{8} = 10\frac{1}{8} \end{aligned}$$

$$\text{(iii)} \quad 1 \div \frac{2}{5} = \frac{1}{1} \div \frac{2}{5} = \frac{1}{1} \times \frac{5}{2} = \frac{5}{2} = 2\frac{1}{2}$$

$$\text{(iv)} \quad \frac{4}{9} \div \frac{4}{9} = \frac{4}{9} \times \frac{9}{4} = \frac{4 \times 9}{9 \times 4} = 1$$

$$\begin{aligned} \text{(v)} \quad 2\frac{1}{3} \div 1\frac{3}{4} &= \frac{7}{3} \div \frac{7}{4} = \frac{7}{3} \times \frac{4}{7} \\ &= \frac{4}{3} = 1\frac{1}{3} \end{aligned}$$

$$\begin{aligned} \text{(vi)} \quad 2\frac{2}{3} \times 3\frac{1}{2} \div 2\frac{4}{9} &= \frac{8}{3} \times \frac{7}{2} \div \frac{22}{9} \\ &= \frac{8}{3} \times \frac{7}{2} \times \frac{9}{22} = \frac{2 \times 7 \times 3}{11} = \frac{42}{11} = 3\frac{9}{11} \end{aligned}$$

Question 3.

Simplify:

$$(i) \frac{1}{4} \text{ of } 2\frac{2}{7} \div \frac{3}{5}$$

$$(ii) 1\frac{1}{4} \times \frac{1}{2} \div 1\frac{1}{3}$$

$$(iii) 6\frac{1}{7} \times 0 \times 5\frac{3}{8}$$

$$(iv) \frac{3}{4} \times 1\frac{1}{3} \div \frac{3}{7} \text{ of } 2\frac{5}{8}$$

$$(v) 2\frac{1}{4} \div \frac{2}{7} \text{ of } 1\frac{1}{3} \times \frac{2}{3}$$

$$(vi) \left(\frac{3}{7} \div \frac{1}{2}\right) \text{ of } 1\frac{1}{7}$$

$$(vii) \left(1\frac{7}{8} \div 1\frac{1}{2}\right) \text{ of } \left(8\frac{1}{3} \div 1\frac{1}{2}\right)$$

$$(viii) \frac{1}{3} \text{ of } 60 \div 60.$$

Solution:

$$(i) \frac{1}{4} \text{ of } 2\frac{2}{7} \div \frac{3}{5} \\ = \frac{1}{4} \times \frac{16}{7} \div \frac{3}{5} = \frac{4}{7} \times \frac{5}{3} = \frac{20}{21}$$

$$(ii) 1\frac{1}{4} \times \frac{1}{2} \div 1\frac{1}{3} = \frac{5}{4} \times \frac{1}{2} \div \frac{4}{3} \\ = \frac{5}{8} \times \frac{3}{4} = \frac{15}{32}$$

$$(iii) 6\frac{1}{7} \times 0 \times 5\frac{3}{8} = \frac{43}{7} \times \frac{0}{1} \times \frac{43}{8} \\ = \frac{43 \times 0 \times 43}{7 \times 1 \times 8} = 0$$

$$(iv) \frac{3}{4} \times 1\frac{1}{3} \div \frac{3}{7} \text{ of } 2\frac{5}{8} = \frac{3}{4} \times \frac{4}{3} \div \frac{9}{8} \\ \left[\frac{3}{7} \text{ of } 2\frac{5}{8} = \frac{3}{7} \times \frac{21}{8} = \frac{9}{8} \right] \\ = \frac{3}{4} \times \frac{4}{3} \times \frac{8}{9} = \frac{8}{9}$$

$$(v) 2\frac{1}{4} \div \frac{2}{7} \text{ of } 1\frac{1}{3} \times \frac{2}{3}$$

$$\left[\frac{2}{7} \text{ of } 1\frac{1}{3} = \frac{2}{7} \times \frac{4}{3} = \frac{8}{21} \right]$$

$$= \frac{9}{4} \div \frac{8}{21} \times \frac{2}{3}$$

$$= \frac{9}{4} \times \frac{21}{8} \times \frac{2}{3} = \frac{63}{16} = 3\frac{15}{16}$$

$$(vi) \left(\frac{3}{7} \div \frac{1}{2} \right) \text{ of } 1\frac{1}{7} = \frac{3}{7} \times \frac{2}{1} \text{ of } \frac{8}{7}$$

$$\left[\frac{2}{1} \text{ of } \frac{8}{7} = \frac{2 \times 8}{7 \times 1} = \frac{16}{7} \right]$$

$$= \frac{3}{7} \times \frac{16}{7} = \frac{48}{49}$$

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$$(vii) \left(1\frac{7}{8} \div 1\frac{1}{2} \right) \text{ of } \left(8\frac{1}{3} \div 1\frac{1}{2} \right)$$

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$$= \left(\frac{15}{8} \div \frac{3}{2} \right) \text{ of } \left(\frac{25}{3} \div \frac{3}{2} \right)$$

$$= \frac{15}{8} \times \frac{2}{3} \text{ of } \frac{25}{3} \times \frac{2}{3}$$

$$= \frac{5}{4} \text{ of } \frac{50}{9} = \frac{5}{4} \times \frac{50}{9} = \frac{125}{18} = 6\frac{17}{18}$$

$$(viii) \frac{1}{3} \text{ of } 60 \div 60 = \frac{1}{3} \times \frac{60}{1} \div \frac{60}{1}$$

$$= 20 \times \frac{1}{60} = \frac{20}{60} = \frac{1}{3}$$

Question 4.

Simplify :

$$(i) 5 - \left(\frac{8}{11} - 3\frac{3}{11} \right)$$

$$(ii) \frac{1}{2} \div \left(\frac{7}{8} - \frac{3}{5} \right)$$

$$(iii) 2\frac{1}{3} \div \left(5\frac{1}{2} + 3\frac{3}{4} \right)$$

$$(iv) \left(3\frac{7}{8} - 3\frac{3}{5} \right) \div \frac{1}{2}$$

$$(v) \frac{4}{7} \div \left(\frac{1}{3} \times 2\frac{4}{5} \right)$$

$$(vi) \frac{3}{4} \div \left(\frac{1}{6} \div \frac{1}{2} \right)$$

$$(vii) \left(\frac{1}{4} - \frac{1}{6} \right) \text{ of } \left(\frac{2}{3} - \frac{5}{12} \right) \times \left(\frac{5}{8} - \frac{7}{12} \right)$$

Solution:

$$\begin{aligned}(i) 5 - \left(\frac{8}{11} - 3\frac{3}{11} \right) &= 5 - \left(\frac{8}{11} - \frac{36}{11} \right) \\ &= 5 - \frac{8}{11} + \frac{36}{11} = \frac{55 - 8 + 36}{11} \\ &= \frac{55 + 36 - 8}{11} = \frac{83}{11} = 7\frac{6}{11}\end{aligned}$$

$$\begin{aligned}(ii) \frac{1}{2} \div \left(\frac{7}{8} - \frac{3}{5} \right) &= \frac{1}{2} \div \left(\frac{5 \times 7 - 8 \times 3}{40} \right) \\ &= \frac{1}{2} \div \left(\frac{35 - 24}{40} \right) = \frac{1}{2} \div \left(\frac{11}{40} \right) \\ &= \frac{1}{2} \times \frac{40}{11} = \frac{20}{11} = 1\frac{9}{11}\end{aligned}$$

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$$\begin{aligned}
 \text{(iii)} \quad 2\frac{1}{3} \div \left(5\frac{1}{2} + 3\frac{3}{4}\right) &= \frac{7}{3} \div \left(\frac{11}{2} + \frac{15}{4}\right) \\
 &= \frac{7}{3} \div \left(\frac{2 \times 11 + 1 \times 15}{4}\right) \\
 &= \frac{7}{3} \div \left(\frac{22 + 15}{4}\right) = \frac{7}{3} \div \left(\frac{37}{4}\right) \\
 &= \frac{7}{3} \times \frac{4}{37} = \frac{28}{111}
 \end{aligned}$$

$$\begin{aligned}
 \text{(iv)} \quad \left(3\frac{7}{8} - 3\frac{3}{5}\right) \div \frac{1}{2} & \\
 &= \left(\frac{31}{8} - \frac{18}{5}\right) \div \frac{1}{2} \\
 &= \left(\frac{31 \times 5}{8 \times 5} - \frac{18 \times 8}{5 \times 8}\right) \div \frac{1}{2} \\
 &= \left(\frac{155}{40} - \frac{144}{40}\right) \div \frac{1}{2}
 \end{aligned}$$

$$\begin{aligned}
 &= \frac{11}{40} \div \frac{1}{2} = \frac{11}{40} \times \frac{2}{1} = \frac{11}{20} \\
 \text{(v)} \quad \frac{4}{7} \div \left(\frac{1}{3} \times 2\frac{4}{5}\right) & \\
 &= \frac{4}{7} \div \left(\frac{1}{3} \times \frac{14}{5}\right) = \frac{4}{7} \div \left(\frac{14}{15}\right) \\
 &= \frac{4}{7} \times \frac{15}{14} = \frac{60}{98} = \frac{30}{49}
 \end{aligned}$$

$$\begin{aligned}
 \text{(vi)} \quad \frac{3}{4} \div \left(\frac{1}{6} \div \frac{1}{2}\right) & \\
 &= \frac{3}{4} \div \left(\frac{1}{6} \times \frac{2}{1}\right) = \frac{3}{4} \div \left(\frac{1}{3}\right) \\
 &= \frac{3}{4} \times \frac{3}{1} = \frac{9}{4} = 2\frac{1}{4}
 \end{aligned}$$

$$\begin{aligned}
 \text{(vii)} \quad \left(\frac{1}{4} - \frac{1}{6}\right) \text{ of } \left(\frac{2}{3} - \frac{5}{12}\right) \times \left(\frac{5}{8} - \frac{7}{12}\right) & \\
 &= \left(\frac{3-2}{12}\right) \text{ of } \left(\frac{8-5}{12}\right) \times \left(\frac{15-14}{24}\right) \\
 &= \left(\frac{1}{12}\right) \text{ of } \left(\frac{3}{12}\right) \times \left(\frac{1}{24}\right) \\
 &= \frac{1}{12} \text{ of } \frac{3}{12} \times \frac{1}{24} \\
 &= \frac{1}{12} \times \frac{1}{96} = \frac{1}{1152}
 \end{aligned}$$

Question 5.

Simplify :

$$(i) \left(\frac{1}{2} + \frac{1}{3}\right) \div \left(\frac{1}{4} - \frac{1}{6}\right)$$

$$(ii) \left(\frac{24}{35} \div \frac{6}{7} + \frac{5}{9}\right) \times \frac{3}{4}$$

$$(iii) \frac{3}{4} \text{ of } 6\frac{1}{8} - \frac{2}{3} \text{ of } 2\frac{1}{4}$$

$$(iv) \frac{7}{30} \text{ of } \left(\frac{1}{3} + \frac{7}{15}\right) \div \left(\frac{5}{6} - \frac{3}{5}\right)$$

$$(v) 2\frac{1}{2} - 3\frac{1}{2} \times 1\frac{3}{4} + 2\frac{1}{2}$$

$$(vi) 4\frac{5}{7} \left(3\frac{1}{8} \div \frac{11}{12}\right)$$

$$(vii) \frac{2}{5} \text{ of } \left(\frac{1}{7} - \frac{1}{12}\right) \text{ of } 1\frac{2}{5}$$

$$(viii) \left(\frac{1}{2} - \frac{1}{3}\right) \left(\frac{3}{4} - \frac{4}{5}\right) \div \left(\frac{1}{2} - \frac{2}{5} + \frac{1}{7}\right)$$

$$(ix) \frac{5}{6} - \frac{3}{5} \left(\frac{1}{3} + \frac{2}{11}\right)$$

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

$$(xi) \frac{1}{2} \text{ of } 40 + 1\frac{3}{4} \text{ of } 2\frac{2}{9} + 2\frac{1}{5} \times 0$$

$$(xii) \left(1 \div 2\frac{1}{5}\right) \div 2\frac{1}{5} \text{ of } 2\frac{1}{2} - 2$$

$$(xiii) 2\frac{6}{11} \text{ of } 1\frac{2}{7} \div 2\frac{2}{11}$$

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Solution:

$$\begin{aligned} \text{(i)} \quad & \left(\frac{1}{2} + \frac{1}{3}\right) \div \left(\frac{1}{4} - \frac{1}{6}\right) \\ & = \left(\frac{3+2}{6}\right) \div \left(\frac{3-2}{12}\right) = \left(\frac{5}{6}\right) \div \left(\frac{1}{12}\right) \\ & = \frac{5}{6} \times \frac{12}{1} = \mathbf{10} \end{aligned}$$

$$\begin{aligned} \text{(ii)} \quad & \left(\frac{24}{35} \div \frac{6}{7} + \frac{5}{9}\right) \times \frac{3}{4} \\ & = \left(\frac{24}{35} \times \frac{7}{6} + \frac{5}{9}\right) \times \frac{3}{4} = \left(\frac{4}{5} + \frac{5}{9}\right) \times \frac{3}{4} \\ & = \left(\frac{36+25}{45}\right) \times \frac{3}{4} \\ & = \frac{61}{45} \times \frac{3}{4} = \frac{61}{60} = \mathbf{1\frac{1}{60}} \end{aligned}$$

$$\begin{aligned} \text{(iii)} \quad & \frac{3}{4} \text{ of } 6\frac{1}{8} - \frac{2}{3} \text{ of } 2\frac{1}{4} \\ & = \frac{3}{4} \text{ of } \frac{49}{8} - \frac{2}{3} \text{ of } \frac{9}{4} \\ & = \frac{3}{4} \times \frac{49}{8} - \frac{2}{3} \times \frac{9}{4} \\ & = \frac{147}{32} - \frac{3}{2} = \frac{147-48}{32} = \frac{99}{32} \\ & = \mathbf{3\frac{3}{32}} \end{aligned}$$

$$\begin{aligned}
 \text{(iv)} \quad & \frac{7}{30} \text{ of } \left(\frac{1}{3} + \frac{7}{15} \right) \div \left(\frac{5}{6} - \frac{3}{5} \right) \\
 &= \frac{7}{30} \text{ of } \left(\frac{5+7}{15} \right) \div \left(\frac{25-18}{30} \right) \\
 &= \frac{7}{30} \times \frac{12}{15} \div \left(\frac{7}{30} \right) \\
 &= \frac{7}{30} \times \frac{12}{15} \times \frac{30}{7} = \frac{12}{15} = \frac{4}{5}
 \end{aligned}$$

$$\begin{aligned}
 \text{(v)} \quad & 2\frac{1}{2} - 3\frac{1}{2} \times 1\frac{3}{4} + 2\frac{1}{2} \\
 &= \frac{5}{2} - \frac{7}{2} \times \frac{7}{4} + \frac{5}{2} \\
 &= \frac{5}{2} - \frac{49}{8} + \frac{5}{2} = \frac{5}{2} + \frac{5}{2} - \frac{49}{8} \\
 &= \frac{20+20-49}{8} = -\frac{9}{8} = -1\frac{1}{8}
 \end{aligned}$$

$$\begin{aligned}
 \text{(vi)} \quad & 4\frac{5}{7} \left(3\frac{1}{8} \div \frac{11}{12} \right) = \frac{33}{7} \left(\frac{25}{8} \div \frac{11}{12} \right) \\
 &= \frac{33}{7} \left(\frac{25}{8} \times \frac{12}{11} \right) = \frac{33}{7} \left(\frac{75}{22} \right) \\
 &= \frac{33}{7} \times \frac{75}{22} = \frac{225}{14} = 16\frac{1}{14}
 \end{aligned}$$

$$\begin{aligned}
 \text{(vii)} \quad & \frac{2}{5} \text{ of } \left(\frac{1}{7} - \frac{1}{12} \right) \text{ of } 1\frac{2}{5} \\
 &= \frac{2}{5} \text{ of } \left(\frac{12-7}{84} \right) \text{ of } \frac{7}{5} \\
 &= \frac{2}{5} \text{ of } \left(\frac{5}{84} \right) \text{ of } \frac{7}{5} \\
 &= \frac{2}{5} \times \frac{5}{84} \times \frac{7}{5} = \frac{1}{30}
 \end{aligned}$$

$$\begin{aligned}
 \text{(viii)} \quad & \left(\frac{1}{2} - \frac{1}{3} \right) \left(\frac{3}{4} - \frac{4}{5} \right) \div \left(\frac{1}{2} - \frac{2}{5} + \frac{1}{7} \right) \\
 &= \left(\frac{3-2}{6} \right) \left(\frac{15-16}{20} \right) \div \left(\frac{35-28+10}{70} \right) \\
 &= \left(\frac{1}{6} \right) \left(\frac{-1}{20} \right) \div \left(\frac{17}{70} \right) = \frac{1}{6} \times \frac{-1}{20} \div \frac{17}{70} \\
 &= \frac{1}{6} \times \frac{-1}{20} \times \frac{70}{17} = -\frac{7}{204}
 \end{aligned}$$

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$$\begin{aligned}
 \text{(ix)} \quad \frac{5}{6} - \frac{3}{5} \left(\frac{1}{3} + \frac{2}{11} \right) &= \frac{5}{6} - \frac{3}{5} \left(\frac{11+6}{33} \right) \\
 &= \frac{5}{6} - \frac{3}{5} \times \frac{17}{33} = \frac{5}{6} - \frac{17}{55} \\
 &= \frac{275-102}{330} = \frac{173}{330}
 \end{aligned}$$

$$\begin{aligned}
 \text{(x)} \quad 4\frac{2}{3} \div \left(3 - \frac{1}{2} \right) + \left(\frac{2}{5} \div 1\frac{1}{5} \right) \\
 &= \frac{14}{3} \div \left(3 - \frac{1}{2} \right) + \left(\frac{2}{5} \div \frac{6}{5} \right) \\
 &= \frac{14}{3} \div \left(\frac{6-1}{2} \right) + \left(\frac{2}{5} \times \frac{5}{6} \right) \\
 &= \frac{14}{3} \div \left(\frac{5}{2} \right) + \frac{1}{3} = \frac{14}{3} \times \frac{2}{5} + \frac{1}{3} \\
 &= \frac{28}{15} + \frac{1}{3} = \frac{28+5}{15} = \frac{33}{15} = \frac{11}{5} = 2\frac{1}{5}
 \end{aligned}$$

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$$\begin{aligned}
 \text{(xi)} \quad \frac{1}{2} \text{ of } 40 + 1\frac{3}{4} \text{ of } 2\frac{2}{9} + 2\frac{1}{5} \times 0 \\
 = \frac{1}{2} \times 40 + \frac{7}{4} \times \frac{20}{9} + \frac{11}{5} \times 0
 \end{aligned}$$

$$\begin{aligned}
 &= 20 + \frac{35}{9} + 0 = \frac{180+35}{9} = \frac{215}{9} \\
 &= 23\frac{8}{9}
 \end{aligned}$$

$$\begin{aligned}
 \text{(xii)} \quad \left(1 \div 2\frac{1}{5} \right) \div 2\frac{1}{5} \text{ of } 2\frac{1}{2} - 2 \\
 &= \left(1 \div \frac{11}{5} \right) \div \frac{11}{5} \text{ of } \frac{5}{2} - 2 \\
 &= \left(1 \times \frac{5}{11} \right) \div \frac{11}{5} \text{ of } \frac{5}{2} - 2 \\
 &= \frac{5}{11} \div \frac{11}{5} \times \frac{5}{2} - 2 = \frac{5}{11} \div \frac{11}{2} - 2 \\
 &= \frac{5}{11} \times \frac{2}{11} - 2 = \frac{10}{121} - 2 \\
 &= \frac{10-242}{121} = -\frac{232}{121} = -1\frac{111}{121}
 \end{aligned}$$

$$\text{(xiii)} \quad 2\frac{6}{11} \text{ of } 1\frac{2}{7} \div 2\frac{2}{11}$$

$$\begin{aligned} &= \frac{28}{11} \text{ of } \frac{9}{7} \div \frac{24}{11} \\ &= \frac{28}{11} \times \frac{9}{7} \div \frac{24}{11} = \frac{36}{11} \div \frac{24}{11} \\ &= \frac{36}{11} \times \frac{11}{24} = \frac{3}{2} = 1\frac{1}{2} \end{aligned}$$



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