

07/08/21
H.W

3 Simplify

$$a) \frac{7}{12} + \frac{9}{12} - \frac{5}{12}$$

$$= \frac{7+9-5}{12} = \frac{11}{12}$$

$$b) \frac{9}{10} - \frac{3}{5} + \frac{7}{8} = \frac{9}{10} + \frac{7}{8} - \frac{3}{5}$$

$$= \frac{9 \times 4 + 7 \times 5 - 3 \times 8}{40}$$

$$c) \frac{5}{12} - \frac{2}{3} - \frac{1}{2} + 7$$

$$= \frac{5}{12} + 7 - \frac{2}{3} - \frac{1}{2}$$

$$= \frac{(5+7 \times 12) - (2 \times 4 - 1 \times 6)}{12}$$

$$= \frac{(5+84) - (8-6)}{12} \quad (\text{LCM} = 12)$$

$$= \frac{89 - 14}{12} =$$

d) $\frac{1}{2} + \frac{3}{4} - \frac{5}{8} - \frac{1}{16}$

$$= \frac{(8+3 \times 4) - (5 \times 2 - 1)}{16}$$

$$= \frac{(8+12) - (10-1)}{16}$$

$$= \frac{20-11}{16} = \frac{9}{16}$$

07/09/21
How

$$6 \overline{) 28} \\ \underline{24} \\ 4$$

$$\frac{42}{74} \\ \underline{28}$$

$$e \quad 9 \frac{3}{4} + 7 \frac{1}{2} - 3 \frac{1}{4} - 2 \frac{1}{2}$$

$$\left(\frac{35}{4} + \frac{15}{2} \right) - \left(\frac{13}{4} - \frac{5}{2} \right)$$

$$= \frac{50}{4} - \frac{8}{4} = \frac{50-8}{4} = \frac{42}{4}$$

$$= \frac{21}{2} = 10 \frac{1}{2}$$

$$f \quad 10 \frac{5}{6} - 7 \frac{2}{3} + 8 \frac{1}{3} - 5 \frac{1}{2}$$

$$\left(\frac{65}{6} - \frac{23}{3} \right) + \left(\frac{25}{3} - \frac{11}{2} \right)$$

$$\left(\frac{65-23}{6} \right) + \left(\frac{25-11}{6} \right)$$

$$\frac{42}{6} - \frac{4}{6} = \frac{28}{6}$$

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