

$$\begin{aligned}
 112 \text{ (a)} \quad & \frac{32}{5} + \frac{23}{11} \times \frac{22}{15} \\
 & = \frac{32}{5} + \frac{46}{15} \\
 & = \frac{96+46}{15} \\
 & = \frac{142}{15}
 \end{aligned}$$

$$\begin{aligned}
 112 \text{ (b)} \quad & \frac{3}{7} \times \frac{28}{15} \div \frac{14}{5} \\
 & = \frac{\cancel{3}}{7} \times \frac{28}{15} \times \frac{5}{\cancel{14}} \\
 & = \frac{2}{7}
 \end{aligned}$$

$$\begin{aligned}
 112 \text{ (c)} \quad & \frac{3}{7} + \frac{-2}{21} \times \frac{-5}{63} \\
 & = \frac{3}{7} + \frac{5}{63} \\
 & = \frac{27+5}{63} \\
 & = \frac{32}{63}
 \end{aligned}$$

$$\begin{aligned}
 112 \text{ (d)} \quad & \frac{7}{8} + \frac{1}{16} - \frac{1}{12} \\
 & = \frac{42+3-4}{48} \\
 & = \frac{41}{48}
 \end{aligned}$$

113.  $-\frac{1}{2}$  is a proper fraction but others are not

$$\begin{aligned}
 114. \quad & \text{Cost of } \frac{19}{4} \text{ m} = \text{Rs } \frac{171}{2} \\
 & \text{Cost of } 1 \text{ m} = \frac{171}{2} \div \frac{19}{4} \\
 & = \frac{171}{2} \times \frac{4}{19} \\
 & = \text{Rs } 18
 \end{aligned}$$