

$$(5\frac{3}{4} + 7\frac{5}{6} - 9\frac{7}{8}) \times \square - 1\frac{5}{6} = 1\frac{1}{12}$$

$$\begin{aligned} & \underline{5\frac{18}{24} + 7\frac{20}{24} - 9\frac{21}{24}} \\ &= 12\frac{38}{24} - 9\frac{21}{24} \\ &= 3\frac{17}{24} \end{aligned}$$

$$3\frac{17}{24} \times \square - 1\frac{5}{6} = 1\frac{1}{12}$$

$$\begin{aligned} & 1\frac{1}{12} + 1\frac{5}{6} \\ &= 2\frac{11}{12} \end{aligned}$$

$$3\frac{17}{24} \times \square = 2\frac{11}{12}$$

$$\square = 2\frac{11}{12} \div 3\frac{17}{24}$$

$$= \frac{35}{12} \div \frac{89}{24}$$

$$= \frac{35}{12} \times \frac{24}{89}$$

$$= \frac{70}{89}$$

$$\frac{70}{89}$$