

$$2\frac{3}{4} \times 1\frac{1}{3}$$

$$\text{Step 1: } 2\frac{3}{4} = \frac{(2 \times 4) + 3}{4} = \frac{8 + 3}{4} = \frac{11}{4}$$

$$1\frac{1}{3} = \frac{(1 \times 3) + 1}{3} = \frac{4}{3}$$

$$2\frac{3}{4} \times 1\frac{1}{3} = \frac{11}{4} \times \frac{4}{3}$$

$$\text{Step 2: } \frac{11}{\cancel{4}_1} \times \frac{\cancel{4}^1}{3} = \frac{11 \times 1}{1 \times 3} = \frac{11}{3}$$

$$\text{Step 3: } \frac{11}{3} = 11 \div 3 = 3 \overset{3R2}{\overline{)11}} \begin{array}{r} -9 \\ \hline 2 \end{array} = 3\frac{2}{3}$$

$$\boxed{2\frac{3}{4} \times 1\frac{1}{3} = 3\frac{2}{3}}$$