

## 5.5 Key Concepts 1 Multiplying Rational Numbers Worked Example

**Example:** Evaluate  $\frac{5}{12} \times \left(-2\frac{1}{10}\right)$ .

**Solution:** Change the mixed number to an improper fraction. Divide numerators and denominators by any common factors. Multiply the numerators and denominators. Follow correct sign rules.

$$\begin{aligned}\frac{5}{12} \times \left(-2\frac{1}{10}\right) &= \frac{5}{12} \times \left(\frac{-21}{10}\right) \\ &= \frac{1}{4} \times \left(\frac{-7}{2}\right) \\ &= -\frac{7}{8}\end{aligned}$$

**Practice:**

1. Evaluate  $-1\frac{1}{4} \times \left(-\frac{2}{15}\right)$ .

2. Evaluate  $-\frac{6}{11} \times \left(7\frac{1}{3}\right)$ .

Answers: 1.  $\frac{1}{6}$ . 2.  $-4$ .