# Fractions

$$\frac{a}{b} \times c = \frac{a \times c}{b}$$

$$\frac{a}{b} \times \frac{c}{d} = \frac{a \times c}{b \times d}$$

$$\frac{a}{b} \div \frac{c}{d} = \frac{a}{b} \times \frac{d}{c} = \frac{a \times d}{b \times c}$$

↑ invert ↑

$$\frac{A}{B} = \frac{C}{D} \qquad \text{Solve: } A \times D = B \times C$$

$$\frac{A}{B} < \frac{C}{D} \qquad \text{if } A \times D < B \times C$$

$$\frac{A}{B} > \frac{C}{D} \qquad \text{if } A \times D > B \times C$$