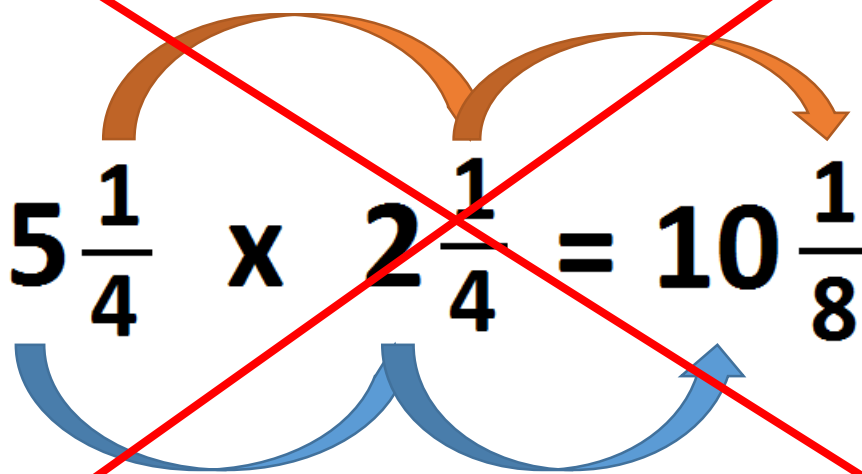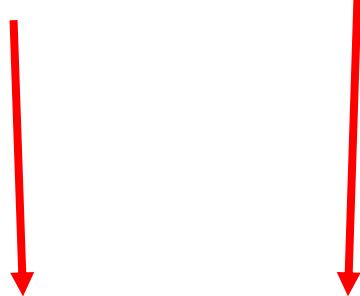$$5\frac{1}{4} + 2\frac{1}{4} = 7\frac{2}{4}$$

This can only be done when adding or subtracting mixed numbers.

$$5\frac{1}{4} \times 2\frac{1}{4} = 10\frac{1}{8}$$

NO!!!

$$5\frac{1}{4} \quad \text{x} \quad 2\frac{1}{4} = \text{?}$$

$$\frac{21}{4} \quad \text{x} \quad \frac{9}{4} = \frac{189}{16}$$

$$\frac{189}{16} = 16\overline{)189}^{\;11\frac{13}{16}}$$