

Multiplying Mixed Numbers

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- * convert all mixed numbers to improper fractions
- * multiply : $\frac{\text{top} \times \text{top}}{\text{bottom} \times \text{bottom}}$
- * Reduce and simplify

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

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

$$\frac{7}{2} \times \frac{9}{4}$$

$$= \frac{7 \times 9}{2 \times 4}$$

$$= \frac{63}{8}$$

$$= 7\frac{7}{8}$$

same

$$\left(7\frac{7}{8}\right)$$

$$8 \times 7 = 56$$

② $2\frac{3}{4} \times 1\frac{1}{5}$

$$2\frac{3}{4} \times 1\frac{1}{5}$$

$$\frac{11}{4} \times \frac{6}{5}$$

$$= \frac{11 \times 6}{4 \times 5}$$

$$= \frac{66}{20}$$

Reduce

$$\frac{66 \div 2}{20 \div 2}$$

$$= \frac{33}{10}$$

$$3 \times 10 = 30$$

$$= 3\frac{3}{10}$$