

FRACTION REVIEW

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Mixed Numbers ↔ Improper Fractions

$$3\frac{4}{5} = \frac{19}{5}$$

x

$$5\frac{2}{3} = \frac{17}{3}$$

$$\frac{29}{4} = 7\frac{1}{4}$$

$$\frac{62}{11} = 5\frac{7}{11}$$

Adding and Subtracting Fractions

You need a common denominator!

$$\begin{aligned} & \frac{1}{2} + \frac{3}{8} \\ & \quad \times 4 \quad \times 4 \\ & = \frac{4}{8} + \frac{3}{8} \\ & = \frac{7}{8} \end{aligned}$$

$$\begin{aligned} & \frac{3}{4} - \frac{1}{8} \\ & \quad \times 2 \quad \times 2 \\ & = \frac{6}{8} - \frac{1}{8} \\ & = \frac{5}{8} \end{aligned}$$

$$\begin{aligned} & 3\frac{5}{8} + 6\frac{3}{4} \\ & \quad \times 2 \quad \times 2 \\ & = 3\frac{5}{8} + 6\frac{6}{8} \\ & = 9\frac{11}{8} \\ & = 9 + 1\frac{3}{8} \\ & = 10\frac{3}{8} \end{aligned}$$

$$\begin{aligned} & 3\frac{7}{16} - 1\frac{3}{8} \\ & \quad \times 2 \quad \times 2 \\ & = 3\frac{7}{16} - 1\frac{6}{16} \\ & = 2\frac{1}{16} \end{aligned}$$

Multiplying Fractions

Change mixed numbers to improper fractions first.

$$\begin{aligned} 6 \times \frac{3}{4} &= \frac{18}{4} \\ &= 4 \frac{2}{4} \div 2 \\ &= 4 \frac{1}{2} \end{aligned}$$

$$\begin{aligned} \frac{1}{2} \times 2 \frac{3}{8} &= \frac{1}{2} \times \frac{19}{8} \\ &= \frac{19}{16} \\ &= 1 \frac{3}{16} \end{aligned}$$

Dividing Fractions

Change mixed numbers to improper fractions first. KEEP, CHANGE, FLIP.

$$\begin{aligned} \frac{7}{8} \div \frac{1}{2} &= \frac{7}{8} \times \frac{2}{1} = \frac{7}{4} \\ &= 1 \frac{3}{4} \end{aligned}$$

$$\begin{aligned} \frac{1}{2} \div 3 &= \frac{1}{2} \times \frac{1}{3} \\ &= \boxed{\frac{1}{6}} \end{aligned}$$

$$\begin{aligned} 2 \frac{1}{8} \div 2 &= \frac{17}{8} \times \frac{1}{2} \\ &= \frac{17}{16} \\ &= \boxed{1 \frac{1}{16}} \end{aligned}$$

$$\begin{aligned} 3 \frac{1}{4} \div 4 &= \frac{13}{4} \times \frac{1}{4} \\ &= \boxed{\frac{13}{16}} \end{aligned}$$