

Lesson 27 - Adding & Subtracting Fractions

Same Denominators: $\frac{4}{10} + \frac{3}{10} = \frac{4+3}{10} = \frac{7}{10}$

Different Denominators: (need to have a common denominator)

- Guess and Check
- Best Way: Find the LCM of all the denominators

$$\frac{1}{6} \cdot \frac{4}{4} = \frac{4}{24}$$

$$\frac{7}{8} + \frac{1}{6} = \frac{\cancel{25}}{\cancel{48}} \cdot \frac{3}{3} = \frac{21}{24} + \frac{4}{24} = \frac{25}{24}$$

$$\frac{7}{8} \cdot \frac{3}{3} = \frac{21}{24}$$

Mixed Fractions: Must be switched to an improper fraction first

- Make sure they have common denominators before Adding and Subtracting

A) $7 \frac{1}{10} - 2 \frac{11}{15} =$

$$\frac{71}{10} - \frac{41}{15} = \frac{213}{30} - \frac{82}{30} = \frac{131}{30}$$

B) $7 \frac{6}{5} - 2$

$$\frac{36}{5} - 2 = 6 \frac{1}{5}$$

C) $6 - 4 \frac{2}{5}$

$$\frac{6}{1} - \frac{22}{5} = \frac{30}{5} - \frac{22}{5}$$

D) $4 \frac{1}{6} - 1 \frac{3}{4}$

$$\frac{29}{6} - \frac{7}{4} = \frac{50}{12} - \frac{21}{12}$$

E) $5 \frac{3}{4} + 2 \frac{1}{3}$

$$\frac{47}{4} + \frac{1}{3} = 8 \frac{1}{12}$$