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Working with Fractions

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In what areas of your life after high school will you have to apply fractions?

$$\frac{1}{2} + \frac{3}{5} = \frac{4}{7}$$

Wrong Answer

$$\frac{5}{5} \cdot \frac{1}{2} + \frac{2}{2} \cdot \frac{3}{5}$$

$$\frac{2 \cdot 3}{2 \cdot 5} = \frac{6}{10}$$

1 ← numerator
3 ← denominator

$$\frac{5}{10} + \frac{6}{10} = \frac{11}{10}$$

locate common

denominator) - When adding or subtracting fractions

Find a common denominator

2) Then add/subtract the top numbers

3) Keep the denominator the same

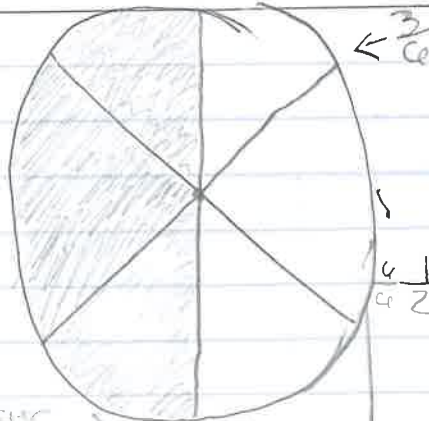
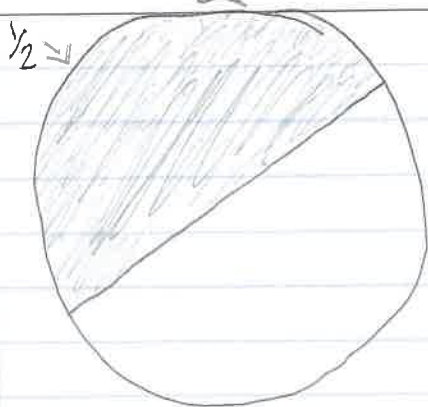
Why keep

denominator the same?

$$\frac{3}{3} \cdot \frac{1}{2} + \frac{2}{2} \cdot \frac{1}{3}$$

$$\frac{3}{6}$$

$$\frac{2}{6} = \frac{5}{6}$$



smaller → 3

larger → 5

Proper Fraction

Larger (or equal) → 6

Smaller (or equal) → 5

Improper Fraction

$$\frac{4}{4} \cdot \frac{1}{2} + \frac{2}{2} \cdot \frac{3}{6}$$

$$\frac{6}{12} + \frac{6}{12}$$

Mixed Fraction
 $2 \frac{1}{3}$

Summary: You will use fractions in your every day life, for food, bills ect. So that's where you will apply fractions in your life after high school.

Multiplying Fractions ✓

1) multiply the top by the top & the bottom by the bottom.

$$\frac{2}{4} \times \frac{2}{4} = \frac{4}{16}$$

Dividing Fractions

1) Invert the second number (Reciprocal)

2) multiply

$$\frac{1}{2} \div \frac{1}{3} \xrightarrow{\substack{\text{switch} \\ \text{2nd}}} \frac{1}{2} \cdot \frac{3}{1} = \frac{3}{2}$$

↑ ↑
1st 2nd