Topic: Working w/Fractions

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Danae

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

What is the 1st step in adding & subtracting fractions?

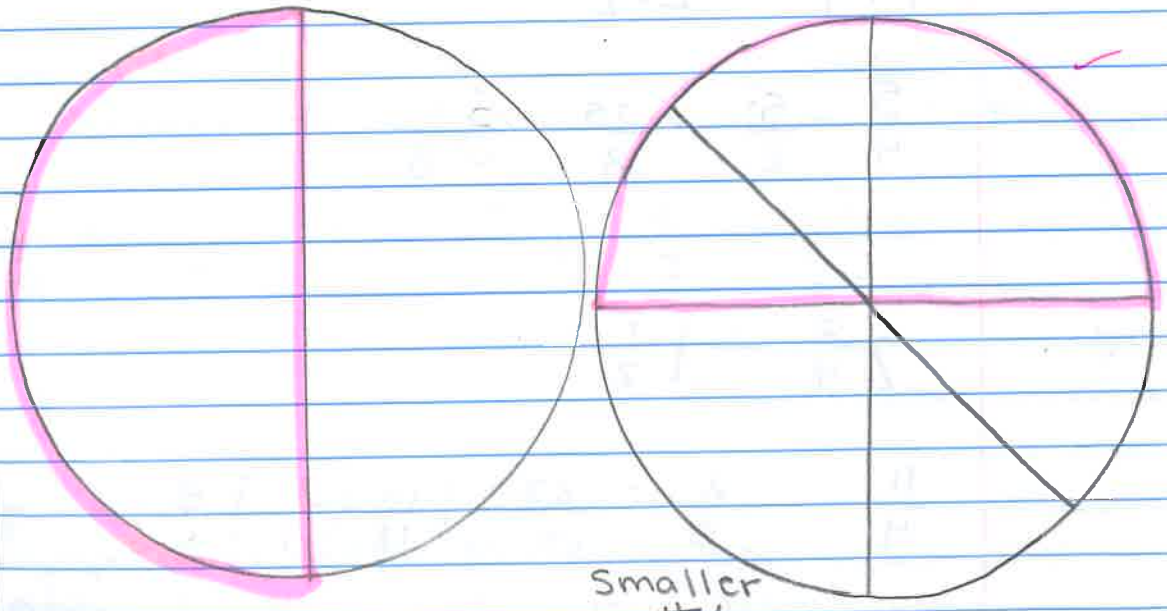
$\frac{1}{2} + \frac{3}{5} = \frac{4}{7}$ #1 wrong answer

$\frac{1}{2} + \frac{3}{5} \cdot 2 = \frac{5}{10} + \frac{6}{10} = \frac{11}{10}$

1. When adding/subtracting fractions find a common denominator.
2. Then Add/Subtract top numbers
3. keep the denominator the same!

1/2, 3/6, 4/8, 6/12, 5/10 = .50

What are the 3 types of fractions?



Smaller #

Types of Fractions

Proper Fractions → 3/5 ← larger #

Improper Fractions → 9/5 ← smaller or equal

Mixed Fraction → larger or equal

$2\frac{1}{3}$

How do you turn a mixed fraction into an improper fraction?

Turning a mixed fraction into an improper fraction.

$1\frac{2}{9}$ $\quad 1 \times 9 = 9 + 2 = 11$

$\frac{11}{9}$

Multiplying Fractions

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

* Start to simplify

$\frac{2}{4} \times \frac{2}{4} = \frac{4}{16} \div 4 = \frac{1}{4}$

Dividing Fractions

1. Invert the second number 2. Multiply

$\frac{1}{2} \div \frac{1}{3} = \frac{1}{2} \times \frac{3}{1} = \frac{3}{2} = 1\frac{1}{2}$

Summary: After high school you will apply fractions to your life when using money w/ discounts or if you want to build something, or if you are baking & cooking and telling time.

Examples

5. $\frac{3}{4} + \frac{4}{5}$. 4

$\frac{15}{20} + \frac{16}{20}$ $\frac{31}{20} = 1\frac{11}{20}$

1. A. $\frac{12}{13}$ B $\frac{11}{16}$ C. $\frac{3}{2 \cdot 8} + \frac{1}{4 \cdot 4}$ $\frac{6}{16} + \frac{4}{16} = \frac{10}{16}$

D. $\frac{12}{30} + \frac{5}{30} = \frac{17}{30}$ E. $\frac{3}{7} + \frac{4}{1}$

9/10 Bell Ringer

2. $\frac{3}{4} - \frac{1}{2}$. 4 $\frac{6}{8} - \frac{2}{8} = \frac{4}{8}$