

Fraction Review

Adding and Subtracting Fractions:

Complete the following:

a. $\frac{1}{2} + \frac{2}{3}$ b. $\frac{3}{1} + \frac{4}{5}$ c. $2\frac{1}{2} - 1\frac{1}{4}$

$\frac{3}{6} + \frac{4}{6} = \frac{7}{6}$ $= \frac{15}{5} + \frac{4}{5} = \frac{19}{5}$ $= \frac{5}{2} - \frac{1}{4} = \frac{10}{4} - \frac{1}{4} = \frac{9}{4}$

Rule for adding and subtracting:

- ① Find a common denominator
- ② Add or subtract the top/leave the bottom

Feb 6-10:43 AM

Multiplying Fractions

Evaluate:

a. $\frac{2}{3} \times \frac{3}{4}$ b. $\frac{4}{5} \times \frac{-1}{2}$ c. $\frac{-3}{1} \times \frac{5}{-3}$ d. $-1\frac{2}{3} \times 2\frac{1}{2}$

$= \frac{6}{12} = \frac{1}{2}$ $= \frac{-4}{10} = \frac{-2}{5}$ $= \frac{-15}{-3} = 5$ $= -\frac{5}{3} \times \frac{5}{2} = \frac{-25}{6}$

Rule for Multiplying Fractions

Just do it ✓
Reduce

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Dividing Fractions:

a. $\frac{1}{2} \div \frac{3}{4}$ b. $\frac{-2}{1} \div \frac{1}{2}$ c. $1\frac{2}{5} \div \frac{3}{-4}$

$= \frac{1}{2} \times \frac{4}{3} = \frac{4}{6} = \frac{2}{3}$ $= \frac{-2}{1} \times \frac{2}{1} = \frac{-4}{1} = -4$ $= \frac{7}{5} \times \frac{-4}{3} = \frac{-28}{15} \checkmark$

Rule for Dividing Fractions:

- ① Change to X and flip the second fraction (reciprocal)
- ② Multiply
- ③ Lowest terms (Reduce)

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1. $\frac{2}{3} + \frac{4}{5}$ 2. $\frac{3}{5} - \frac{3}{10}$

$= \frac{10}{15} + \frac{12}{15} = \frac{22}{15}$ $= \frac{6}{10} - \frac{3}{10} = \frac{3}{10}$

3. $\frac{6}{7} \times \frac{-3}{2}$ 4. $\frac{2}{-3} \div \frac{4}{5}$

$= \frac{-18}{14} = \frac{-9}{7}$ $= \frac{2}{-3} \times \frac{5}{4} = \frac{10}{-12} = \frac{-5}{6}$

Sep 8-1:16 PM

Homework:

Handout

Feb 6-10:55 AM