Warm Up

1. $-\frac{3}{5} + \left(-\frac{4}{9}\right) =$

$-\frac{27}{45} + \left(-\frac{20}{45}\right) = -\frac{47}{45} = -1\frac{2}{45}$

-Grab a homework from the back table

2. $-3\frac{1}{4} - \left(-6\frac{2}{5}\right) =$

$-3\frac{5}{20} + \left(6\frac{8}{20}\right) = 3\frac{3}{20}$

Multiplying and Dividing Fractions

Steps to multiply fractions

1. If mixed number, change to improper
2. Cross reduce, if possible **Shortcut!
3. Multiply numerators
4. Multiply denominators
5. Reduce, if possible

$\frac{3}{17} \cdot \frac{7}{8} = \frac{3}{8}$

$\frac{21 \div 7}{56 \div 7} = \frac{3}{8}$

$\frac{12}{15} \cdot \frac{5}{9} = \frac{4}{9}$

$5\frac{1}{6} \cdot 2\frac{1}{4} = \frac{5}{2} \cdot \frac{9}{4} = \frac{15}{8} = 1\frac{7}{8}$

$9\frac{1}{3} \cdot 2\frac{1}{4} = \frac{28}{3} \cdot \frac{9}{4} = \frac{21}{1} = 21$

Steps to divide fractions

1. If mixed number, change to improper
2. Keep, Change, Flip
3. Follow multiplication steps

$$\frac{11}{3} \div \frac{2}{6} =$$

$\frac{11}{\cancel{3}_1} \cdot \frac{\cancel{6}^2}{2} = \frac{22}{2} = 11$

$$\frac{13}{4} \div \frac{1}{2} =$$

$\frac{13}{2\cancel{4}} \cdot \frac{\cancel{2}^1}{1} = \frac{13}{2} = 6\frac{1}{2}$

$$4\frac{1}{5} \div 1\frac{1}{2} =$$

$\frac{21}{5} \div \frac{3}{2}$

$\frac{7\cancel{21}}{5} \cdot \frac{2}{\cancel{3}1} = \frac{14}{5} = 2\frac{4}{5}$

August 26, 2019

$$-\frac{5}{9} \cdot \frac{27}{35}$$

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

$$\frac{-3}{2} \div \frac{-10}{7}$$

$$2\frac{1}{4} \div 3$$

August 26, 2019