Dividing Fractions

When dividing fractions, keep the first fraction the same and multiply by the reciprocal of the second fraction.

$$\frac{-2}{5} \div \frac{3}{10}$$

keep the same

change to ×

switch to its reciprocal

$\frac{3}{10}$ becomes $\frac{10}{3}$

$\frac{-2}{5} \times \frac{10}{3} = \frac{-20}{15}$

Always simplify your final answer

$\frac{-20 \div 5}{15 \div 5} = \frac{-4}{3}$

$\frac{3}{4} \div -\frac{9}{8}$

negative

$\frac{3}{4} \times -\frac{8}{9}$

$-\frac{24}{36}$ $\frac{\div 12}{\div 12}$

$-\frac{2}{3}$

$1\frac{1}{4} \div (-3)$

$\frac{5}{4} \div -\frac{3}{1}$

$\frac{5}{4} \times \frac{1}{-3}$

$\frac{5}{-12}$

$-\frac{5}{12}$

RECALL HOW TO SIMPLIFY FIRST

$2\frac{1}{2} \div \frac{25}{14}$

$\frac{5}{2} \div \frac{25}{14}$

$\frac{5}{2} \times \frac{14}{25}$

$\frac{\cancel{5}^{1}}{\cancel{2}_{1}} \times \frac{\cancel{14}^{7}}{\cancel{25}_{5}}$

$\frac{1}{5} \times \frac{7}{1} = \frac{7}{5}$

Divide.

a) $(-1.38) \div 0.6$

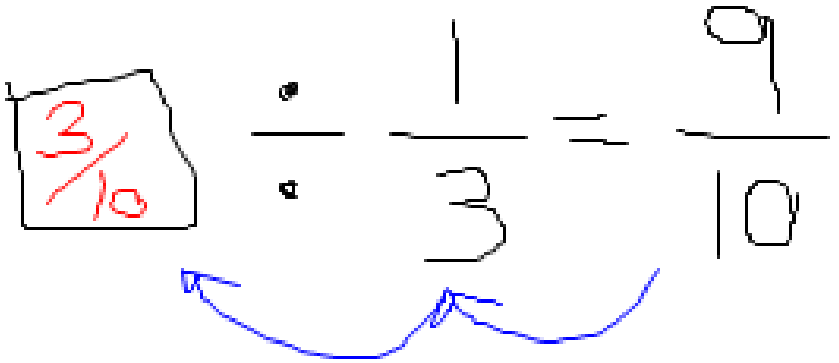
$$\frac{-138}{100} \div \frac{6}{10}$$

$$-\frac{138}{100} \times \frac{10}{6}$$

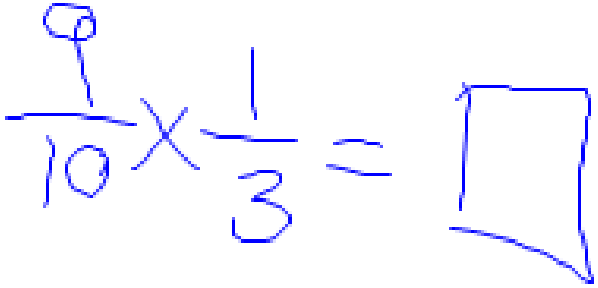
$$-\frac{138}{10} \times \frac{1}{6}$$

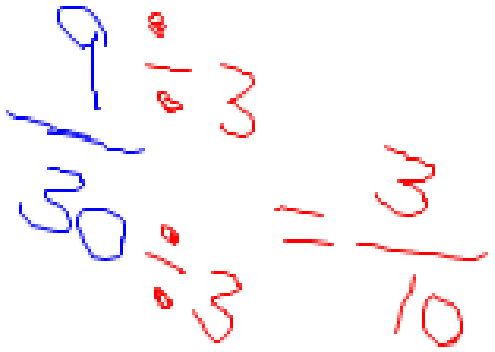
$$-\frac{138 \div 2}{60 \div 2} = \frac{69 \div 3}{30 \div 3} = 2\frac{3}{10}$$

HOW ARE MULTIPLICATION AND DIVISION RELATED?



2 x 4 = 8





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