## Algebra I 2-9 Dividing Real Numbers

How do we multiply fractions?

$$\frac{2}{3} \cdot \frac{4}{5} = \frac{8}{15}$$

Multiply the tops, Multiply the bottoms

as CROSS PRODUCTS.

$$\frac{2}{3} \div \frac{4}{5} =$$

How do we divide fractions?  $\frac{2}{3} \div \frac{4}{5} =$  multiply the reciprocal.

多(至)=5

## **Sample Questions**

Simplify.

1) 
$$\frac{8}{\frac{2}{3}}$$
 Rewrite  $= 8 \div \frac{2}{3}$ 

2) 
$$(-\delta) \cdot \frac{-5x}{2} = 15x$$

3) 
$$(-88) \div \left(-\frac{1}{11}\right)$$
  
-88  $-\frac{11}{1}$   
968

Find the mean of the given numbers.

4) 
$$-5$$
,  $-2$ ,  $8$ ,  $-7$ 

$$-5 + (-2) + 8 + (-7)$$
Because there are four numbers in our collection.

$$-\frac{7+1}{4}$$

$$-\frac{6}{4} \cdot \frac{7}{1} \cdot \frac{3}{2}$$

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