Worksheet #1



## **Dividing Rational Numbers**

**Learning Goal:** Students will be able to divide and simplify rational numbers.

**Example:** 

$$6 \div \frac{3}{5} = \frac{10}{1}$$

a) 
$$\frac{2}{3} \div -10 =$$

$$f) - 10 \div \frac{5}{9} =$$

b) 
$$\frac{2}{5} \div -22 =$$

$$g)-21 \div \frac{7}{8} =$$

c) 
$$\frac{-6}{7} \div 24$$
 ELIEVE YOURSh)  $-9 \div \frac{-3}{7}$  =

$$d) \frac{-1}{3} \div 7 =$$

i) 
$$-14 \div \frac{-4}{9} =$$

e) 
$$\frac{-2}{5} \div 18 =$$

j) 
$$-9 \div \frac{6}{5} =$$

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Worksheet #1 (Answers)



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Learning Goal: Students will be able to divide and simplify rational

**Example:** 

$$6 \div \frac{3}{5} = \frac{10}{1}$$

a) 
$$\frac{2}{3} \div -10 = \boxed{\frac{1}{15}}$$

a) 
$$\frac{2}{3} \div -10 = \left| \frac{1}{15} \right|$$
 f)  $-10 \div \frac{5}{9} = -18$ 

b) 
$$\frac{2}{5} \div -22 = \boxed{\frac{1}{55}}$$

b) 
$$\frac{2}{5} \div -22 = \left| \frac{1}{55} \right|$$
 g)  $-21 \div \frac{7}{8} = \left| -24 \right|$ 

c) 
$$\frac{-6}{7} \div 24 = \frac{1}{28} = \frac{3}{7} = \frac{1}{7} = \frac{1}$$

h) 
$$-9 \div \frac{-3}{7} = 21$$

d) 
$$\frac{-1}{3} \div 7 = -\frac{1}{21}$$

d) 
$$\frac{-1}{3} \div 7 = -\frac{1}{21}$$
 i)  $-14 \div \frac{-4}{9} = \frac{63}{2}$ 

e) 
$$\frac{-2}{5} \div 18 = -\frac{1}{45}$$

e) 
$$\frac{-2}{5} \div 18 = -\frac{1}{45}$$
 j)  $-9 \div \frac{6}{5} = -\frac{15}{2}$ 

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