## Worksheet #10



## **Equivalent Rational Numbers**

Learning Goal: Students will be able to find an equivalent rational number by Multiplication and division.

**Example:** 

$$\frac{-24}{12}$$
  $\frac{3}{3}$  =  $\frac{-8}{4}$ 

a) 
$$\dfrac{\square}{16}=\dfrac{-3}{4}$$

f) 
$$\frac{\Box}{-88} = \frac{-9}{11}$$

Common divisor

b) 
$$\frac{-38}{\Box} = \frac{-19}{21}$$

g) 
$$\dfrac{30}{\square}=\dfrac{-10}{18}$$

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c) 
$$\frac{\Box}{-96}=\frac{-6}{16}$$
 BELIEVE h)  $\frac{36}{\Box}$  SEF  $\frac{-9}{11}$ 

$$\mathsf{d})\frac{\square}{-80}=\frac{-24}{16}$$

$$\mathsf{i})\frac{15}{\square} = \frac{5}{6}$$

e) 
$$\frac{\Box}{-128} = \frac{-6}{16}$$

$$\mathsf{j})\frac{18}{\square} = \frac{-2}{4}$$

Worksheet #10(Answers)



## **Equivalent Rational Numbers**

Learning Goal: Students will be able to find an equivalent rational number by Multiplication and division.

**Example:** 

$$\frac{-24}{12}$$
:  $(\frac{3}{3}) = \frac{-8}{4}$ 

a) 
$$\dfrac{-12}{16}=\dfrac{-3}{4}$$

f) 
$$\frac{72}{-88} = \frac{-9}{11}$$

Common divisor

b) 
$$\frac{-38}{42} = \frac{-19}{21}$$

g) 
$$\frac{30}{-54} = \frac{-10}{18}$$

c) 
$$\frac{36}{-96} = \frac{-6}{16}$$

$$\begin{array}{c} \begin{array}{c} \begin{array}{c} \hline \\ \\ \\ \end{array} \end{array} \begin{array}{c} 36 \\ \hline -96 \end{array} = \begin{array}{c} -6 \\ \hline 16 \end{array} \quad \text{Believe h)} \begin{array}{c} 36 \\ \hline -44 \end{array} = \begin{array}{c} -9 \\ \hline 11 \end{array}$$

d) 
$$\frac{120}{-80} = \frac{-24}{16}$$

$$\mathsf{i)}\frac{15}{18} = \frac{5}{6}$$

e) 
$$\frac{48}{-128} = \frac{-6}{16}$$

$$\text{j)}\,\frac{18}{-36}=\frac{-2}{4}$$