Name: _____

Dividing Fractions

Example:

<u>1</u> 3		1	<u> </u> 		
1 6					

Dividing by a number is the same as multiplying by its reciprocal.

$$\begin{bmatrix}
\frac{2}{3} \div \frac{1}{6} \\
\frac{2}{3} \div \frac{1}{6} = \frac{2}{3} \times \frac{6}{1} \\
\uparrow_{\text{reciprocals}}
\end{bmatrix}$$

$$\frac{2}{3} \times \frac{6}{1} = \frac{12}{3} = 4$$



~PREVIEW~

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c.

$\frac{1}{5}$ $\frac{1}{5}$		<u>1</u> 5		<u>1</u> 5					
디디	1 10	10	10						

d.

	1/4		1/4				
<u>1</u>							

Dividing Fractions

Example:

1/3		1 (3	3	
1/6				

Dividing by a number is the same as multiplying by its reciprocal.

$$\frac{2}{3} \div \frac{1}{6}$$

$$\frac{2}{3} \div \frac{1}{6} = \frac{2}{3} \times \frac{6}{1}$$

$$\uparrow \text{reciprocals}$$

$$\frac{2}{3} \div \frac{1}{6} = \frac{2}{3} \times \frac{6}{1}$$

$$\uparrow_{\text{reciprocals}}$$

$$\frac{2}{3} \times \frac{6}{1} = \frac{12}{3} = 4$$



PREVIEW

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$$\frac{3}{3} \div \frac{3}{9} = \frac{3}{3} \times \frac{7}{3}$$

$$\frac{3}{3} \times \frac{9}{3} = \frac{27}{9} = 3$$

$$\frac{1}{2} \div \frac{1}{8} = \frac{1}{2} \times \frac{3}{1}$$

$$\frac{1}{2} \times \frac{8}{1} = \frac{8}{2} = 4$$

C.

1	<u> </u>		<u> </u>	- 1	<u> </u>	- 1	<u> </u>	
<u>1</u> 10	<u>1</u> 10	<u>1</u> 10	<u>1</u> 10					

$$\frac{4}{5} \div \frac{4}{10} = \frac{4}{5} \times \frac{10}{4}$$

$$\frac{4}{5} \times \frac{10}{4} = \frac{40}{20} = 2$$

d.

1/4	1/4		
1 12			

$$\frac{2}{4} \div \frac{1}{12} = \frac{2}{4} \times \frac{12}{1}$$

$$\frac{2}{4} \times \frac{12}{1} = \frac{24}{4} = 6$$