Math 105 Skill Builder #F - 13
Writing Equivalent Fractions

Equivalent fractions are fractions that have different names for the same number.

Fractions, $\frac{16}{40}$ and $\frac{10}{25}$ are equivalent, because both reduce to the same number $\frac{2}{5}$.

To get a faction equivalent to a given fraction, we multiply the given fraction by 1 in the form $\frac{a}{a}$

Write a fraction equivalent to $\frac{6}{7}$ using $\frac{2}{2}$ for 1.

$$\frac{6}{7} = \frac{6}{7} \cdot 1 = \frac{6}{7} \cdot \frac{2}{2} = \frac{12}{14}$$

Examples:

Multiply by	$\frac{2}{2}$	$\frac{4}{4}$	$\frac{5}{5}$	$\frac{7}{7}$
$\frac{2}{3} =$	$\frac{4}{6} =$	$\frac{8}{12} =$	$\frac{10}{15} =$	$\frac{14}{21}$
$\frac{4}{7} =$	$\frac{8}{14} =$	$\frac{16}{28} =$	$\frac{20}{35} =$	$\frac{28}{49}$
$\frac{1}{3} =$	$\frac{2}{6} =$	$\frac{4}{12} =$	$\frac{5}{15} =$	$\frac{7}{21}$
$\frac{6}{7} =$	$\frac{12}{14} =$	$\frac{24}{28} =$	$\frac{30}{35} =$	$\frac{42}{49}$

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Perform the indicated operation:

Multiply by	$\frac{2}{2}$	$\frac{3}{3}$	$\frac{5}{5}$	$\frac{6}{6}$
$\frac{5}{6} =$				
$\frac{4}{7} =$				
$\frac{1}{8} =$				
$\frac{3}{4} =$				

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Answers:

Multiply by	$\frac{2}{2}$	$\frac{3}{3}$	$\frac{5}{5}$	$\frac{6}{6}$
$\frac{5}{6} =$	$\frac{10}{12}$	$\frac{15}{18}$	$\frac{25}{30}$	$\frac{30}{36}$
$\frac{4}{7} =$	$\frac{8}{14}$	$\frac{12}{21}$	$\frac{20}{35}$	$\frac{24}{42}$
$\frac{1}{8} =$	$\frac{2}{16}$	$\frac{3}{24}$	$\frac{5}{40}$	$\frac{6}{48}$
$\frac{3}{4} =$	$\frac{6}{8}$	$\frac{9}{12}$	$\frac{15}{20}$	$\frac{18}{24}$

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