



Comparing, Simplifying & Adding Fractions Review page 1 of 2

1 Find the least common multiple of each pair of numbers.

<p>ex The least common multiple of 8 and 28 is <u>56</u>.</p> <p>multiples of 28: 28, (56)</p> <p>multiples of 8: 8, 16, 24, 32, 40, 48, (56)</p>	<p>a The least common multiple of 8 and 12 is _____.</p> <p>multiples of 12:</p> <p>multiples of 8:</p>
<p>b The least common multiple of 6 and 15 is _____.</p> <p>multiples of 15:</p> <p>multiples of 6:</p>	<p>c The least common multiple of 6 and 14 is _____.</p> <p>multiples of 14:</p> <p>multiples of 6:</p>

2 Rewrite each pair of fractions with a common denominator. (Use the least common multiples above to help.) Then use a $<$, $>$, or $=$ to compare them in two expressions.

Fractions	Rewritten with Common Denominator	Expressions
ex $\frac{6}{8}$ and $\frac{17}{28}$	$\frac{6 \times 7}{8 \times 7} = \frac{42}{56}$ $\frac{17 \times 2}{28 \times 2} = \frac{34}{56}$	$\frac{42}{56} > \frac{34}{56}$ so $\frac{6}{8} > \frac{17}{28}$
a $\frac{5}{8}$ and $\frac{9}{12}$	$\frac{5 \times \square}{8 \times \square} = \frac{\square}{\square}$ $\frac{9 \times \square}{12 \times \square} = \frac{\square}{\square}$	so $\frac{5}{8} \square \frac{9}{12}$
b $\frac{4}{6}$ and $\frac{12}{15}$	$\frac{4 \times \square}{6 \times \square} = \frac{\square}{\square}$ $\frac{12 \times \square}{15 \times \square} = \frac{\square}{\square}$	so $\frac{4}{6} \square \frac{12}{15}$
c $\frac{5}{6}$ and $\frac{11}{14}$	$\frac{5 \times \square}{6 \times \square} = \frac{\square}{\square}$ $\frac{11 \times \square}{14 \times \square} = \frac{\square}{\square}$	so $\frac{5}{6} \square \frac{11}{14}$

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- 3** Rewrite each fraction in simplest form by dividing the numerator and denominator by the greatest common factor. A fraction is in its simplest form when its numerator and denominator have no common factor other than 1. You do not have to show your work if you can do it in your head.

ex $\frac{9 \div 3}{15 \div 3} = \frac{3}{5}$	a $\frac{4 \div \square}{6 \div \square} = \frac{\square}{\square}$	b $\frac{12 \div \square}{15 \div \square} = \frac{\square}{\square}$
c $\frac{12 \div \square}{18 \div \square} = \frac{\square}{\square}$	d $\frac{8 \div \square}{12 \div \square} = \frac{\square}{\square}$	e $\frac{4 \div \square}{12 \div \square} = \frac{\square}{\square}$

- 4** Rewrite each pair of fractions so they have the same denominator. Then find their sum. Sometimes, you will need to find the least common multiple. Sometimes you might be able to reduce each fraction to its simplest form to find a common denominator.

ex $\frac{5}{8} + \frac{7}{12}$ $\frac{15}{24} + \frac{14}{24} = \frac{29}{24}$ and $\frac{29}{24} = 1\frac{5}{24}$	ex $\frac{2}{6} + \frac{8}{12}$ $\frac{1}{3} + \frac{2}{3} = \frac{3}{3}$ and $\frac{3}{3} = 1$
a $\frac{3}{4} + \frac{2}{8}$	b $\frac{6}{8} + \frac{9}{12}$
c $3\frac{6}{12} + 4\frac{1}{2}$	d $1\frac{5}{8} + 2\frac{3}{4}$