Simplify → Reduce Does this use GCF or LCM?

$\frac{42}{28} \div 7 = \frac{6}{4} \div 2 = \frac{3}{2}$

If you had used the GCF of 14 you would have been able to reduce the fraction in one step.

Simplify $\frac{108}{144} \div 12 = \frac{9}{12} \div 3 = \frac{3}{4}$

If you had used the GCF of 36 you would have been able to reduce the fraction in one step.

Simplify each. Does this use GCF or LCM?

1. $\frac{12}{18} \cdot \frac{25}{35}$ (÷6, ÷5, ÷5, ÷6)

$\frac{2}{3} \cdot \frac{5}{7} = \frac{10}{21}$

you can reduce the two fractions first then multiply them.

$\frac{12}{18} \cdot \frac{25}{35} = \frac{300}{630}$

Or, you could multiply the two fractions first then reduce that result to get the same answer. $= \frac{30 \div 3}{63 \div 3} = \frac{10}{21}$

2. ÷7, ÷5, ÷5, ÷7 cross cancel

$\frac{28}{15} \cdot \frac{40}{21} = \frac{4}{3} \cdot \frac{8}{3} = \frac{32}{9}$

Since neither fraction can be simplified by itself you can look to cross cancel then multiply the two fractions.

3. $\frac{32}{12} \cdot \frac{24}{36}$ (÷4, ÷12, ÷4, ÷12)

$= \frac{8}{3} \cdot \frac{2}{3} = \frac{16}{9}$

you can simplify each fraction separately then multiply the fractions.

÷4, ÷12, ÷12

$\frac{32}{12} \cdot \frac{24}{36} = \frac{8}{1} \cdot \frac{2}{9} = \frac{16}{9}$

You can cross cancel first then multiply the fractions.

Simplify each.

1. $\frac{11}{9} \cdot 36$

Divide 36 by 9 then take that result and mulitply by 11:

$= 44$

2. $\frac{7}{5} \cdot 40$

Divide 40 by 5 then take that result and multiply by 7:

$= 56$

3. $\frac{5}{6} \cdot \frac{14}{1}$ $\div 2$ $\div 2$

Since 14 is not divisible by 6 you can cross cancel first then multiply the two fractions

$= \frac{5}{3} \cdot \frac{7}{1}$

$= \frac{35}{3}$

Simplify. Does this use GCF or LCM?

$\frac{3}{3} \cdot \frac{3}{8} + \frac{5}{6} \cdot \frac{4}{4}$

Give your answer as a fraction in simplest form. If the answer is greater than one leave it as an improper fraction.

$\frac{9}{24} + \frac{20}{24} = \frac{29}{24}$

Find each sum or difference. Give answer as both an improper fraction and a mixed number when both are possible. Make sure answer is reduced!

1. $\frac{4}{4} \cdot \frac{3}{1} + \frac{5}{4}$

$= \frac{12}{4} + \frac{5}{4}$

$= \frac{17}{4}$

$= 4\frac{1}{4}$

2. $\frac{7}{7} \cdot 4 - \frac{2}{7}$

$= \frac{28}{7} - \frac{2}{7}$

$= \frac{26}{7} = 3\frac{5}{7}$