


Goldentail Presents LCD's and Polar Primes



Finding the LCD of three or more fractions can be trickier than finding a polar bear in a snowstorm! Follow the steps below and learn how to use prime factorization to make the job easier.

EXAMPLE	
	$\frac{7}{12} + \frac{5}{18} + \frac{1}{20}$
1. Prime factorize the denominators.....→	$\frac{7}{2 \times 2 \times 3} + \frac{5}{2 \times 3 \times 3} + \frac{1}{2 \times 2 \times 5}$
2. Find the largest group of each prime factor and circle it.....→	$\frac{7}{\underline{2 \times 2} \times 3} + \frac{5}{2 \times \underline{3 \times 3}} + \frac{1}{2 \times 2 \times \underline{5}}$
3. Multiply all of the circled groups together; this is the LCD.....→	LCD = $2 \times 2 \times 3 \times 3 \times 5 = 180$
4. Find the equivalent form of each fraction with the LCD as the denominator.....→	$\frac{7 \times 15}{12 \times 15} + \frac{5 \times 10}{18 \times 10} + \frac{1 \times 9}{20 \times 9}$
5. Solve the problem and reduce the answer if necessary.....→	$\frac{105}{180} + \frac{50}{180} + \frac{9}{180} = \frac{164}{180} = \frac{41}{45}$

Following the steps above, do the problems below! Write each final reduced answer in the polar bear below its problem.

<p>1 $\frac{8}{15} + \frac{9}{20} + \frac{5}{6} =$</p>	<p>2 $\frac{8}{9} + \frac{1}{6} - \frac{1}{4} =$</p>	<p>3 $\frac{13}{14} - \frac{6}{35} - \frac{3}{10} =$</p>	<p>4 $\frac{3}{4} - \frac{4}{7} + \frac{1}{3} =$</p>
