

$$66F = 2.3.3$$

2. Reduce to lowest terms:
$$\frac{18 \div 18}{126 \div 18} = \frac{1}{7}$$

3. What is the least common multiple of 22 and 14? 22
$$\frac{14}{2}$$
 LCM=2.7.11=154

4. Find the least common denominator of the following fractions:
$$\frac{5}{22}$$
, $\frac{9}{14}$ LCD= 154

5. Change the improper fraction to a mixed number in lowest terms:
$$\frac{98}{12}$$

$$12 \sqrt{\frac{8}{12}} \qquad \frac{98}{12} = 8 R 2 = \frac{8}{12} = 8 \frac{1}{6}$$

6. Change the mixed number to an improper fraction in lowest terms:
$$6\frac{1}{4} = \frac{25}{4}$$

7. Simplify. Make sure your final answer is in lowest terms:
$$\frac{13}{36} - \frac{5}{36} = \frac{13-5}{36} = \frac{834}{364} = \frac{2}{9}$$

8. Simplify. Make sure your final answer is in lowest terms:
$$\frac{3}{10} + \frac{1}{8}$$
 $LCO = 40$

$$= \frac{12}{40} + \frac{5}{40} = \frac{12+5}{40} = \frac{1}{40}$$

9. Bonus: Macy's is advertising $\frac{1}{7}$ off all fall clothing. Bloomingdale's is advertising $\frac{1}{5}$ off. Which store is offering the bigger discount? (Justify your answer.)

Write as equivalent fractions:
$$\frac{1}{7} \times \frac{5}{5} \times \frac{1}{7} \Rightarrow \frac{5}{35} \times \frac{7}{35} \Rightarrow \frac{7$$

1) Write as equivalent fractions:
$$7 \times 5 \times 7 \times 35$$
 discount is
2) Cross multiply: $\frac{1}{7} \stackrel{?}{=} \frac{1}{5} \rightarrow 1.5 \stackrel{?}{=} 1.7 \rightarrow 5 \stackrel{?}{=} 7 \rightarrow 5$

3) Compute decimals: 7/1.00 < 5/1.00
4)
$$\frac{1}{7}$$
 : (since) numerators are the same, the fraction with the smaller denominator is the larger fraction is (therefor) $\frac{1}{5}$ is larger than $\frac{1}{7}$ > same