Name: //e/

Math 221: Quiz 10 - 6/18/15

Solve the following problems. Please use a pencil if possible.

1. Fill in the following blanks with <, >, or =. Use a different method for each problem. [20 Points Each]

(a)
$$\frac{8}{12} = \frac{12}{18}$$
 Simplify $\frac{2}{3} = \frac{2}{3}$

(b)
$$\frac{6}{7} \ge \frac{3}{4}$$
 LCM $\frac{24}{28}$ $\frac{21}{28}$

(c)
$$\frac{20_1}{13} \ge \frac{2^{26}}{27}$$
 Cross-multiply 1.27 > 2.13

2. Calculate $4\frac{1}{6} - 1\frac{7}{15}$ and leave your answer in mixed number form. Do not convert the mixed numbers to improper fractions, and instead use regrouping. [20 Points]

$$\begin{array}{c}
4\frac{1}{6} & 34\frac{8}{30} & 35 \\
-1\frac{7}{15} & -1\frac{14}{30} & 2\frac{7}{10} & 2\frac{7}{10}
\end{array}$$

3. Solve the problem $\frac{30}{56} \cdot \frac{35}{15}$ by simplifying first. Your fraction should be reduced after you multiply if you've done this question correctly. [20 Points]