Fractions HW 3

1. Word problems: Write and solve word	Explain these concepts and processes:
problems for the numerical problems:	
a. $\frac{5}{2} + \frac{7}{2}$	5. By making an analogy to whole number $1 - 2$
8 8	multiplication, explain why $\frac{1}{2} \times \frac{5}{4}$ means 1/2
b. $\frac{3}{4} + \frac{2}{5}$	of 3/4.
c. $\frac{9}{8} - \frac{3}{8}$ (write a take-away type problem)	6. Draw a diagram to show the meaning of 3
d. $\frac{3}{4} - \frac{2}{5}$ (write a take-away type problem)	$\frac{-5}{5} \times \frac{-5}{8}$ (a diagram that clearly shows what 2/3 of 4/5 is). Use the diagram to explain why that
e. $\frac{9}{8} - \frac{3}{8}$ (write a compare type problem)	amount is $\frac{2 \times 4}{3 \times 5}$.
f. $\frac{3}{4} - \frac{2}{5}$ (write a compare type problem)	5.0
g. $\frac{2}{3} \times \frac{4}{5}$ (write a "groups-of" type problem)	
h. $\frac{5}{4} \times \frac{3}{8}$ (write a "groups-of" type problem)	
Computation problems:	
2. Simplify the fraction $\frac{42}{90}$	
a. Using divisionb. By factoring	
3. Find the least common denominator and use it to add or subtract these fractions:	
a. $\frac{5}{12} + \frac{23}{30}$	
b. $\frac{7}{8} - \frac{15}{28}$	
4. Multiply these fractions and simplify (you can simplify as you go or at the end) a. $\frac{24}{35} \times \frac{75}{14}$	
b. $\frac{36}{25} \times \frac{20}{27}$	