Honors integrated name_____
HW Worksheet 1.1

Solve each proportion. Do not round!! Leave fraction answers as improper fractions (always☺).

1. $\frac{15}{y}=\frac{5}{6}$

2. $\frac{c}{12}=\frac{2}{7}$

3. $\frac{15-x}{5}=\frac{3}{2}$

4. $\frac{1}{6}=\frac{3}{2x+3}$

5*. $\frac{3}{x}=\frac{x+2}{x}$

6. $\frac{x+1}{1}=\frac{2}{x}$

7. *From textbook (Page 5 #7)

7. Suppose a similar *capture-recapture* procedure is used to find the number of horses in a large grassland. Twenty horses are captured and marked. Then they are released into the grassland. After a week, 80 horses are captured. Five of those horses are found to be marked.

a. Write a proportion that models this situation.

b. Use your proportion to estimate the population of horses in this region.