Open Note Quiz 1 Ag Math

Directions: Answers all questions showing work if needed. Partial credit may be given for correct work. This is an open note quiz. NOT OPEN BOOK OR OPEN COMPUTER. Soon you will have a closed note quiz like this.

1. Multiply the following problem, cancel units if possible (reduce) 1 pt
   $\frac{30 \cdot \frac{x}{y}}{y \cdot \frac{x}{z}} = \frac{30}{2}$

2. Multiple the following problem and cancel units if possible (reduce) 1 pt
   (34 bushels/acre) * (2 pounds/acre)
   $\frac{34 \text{ bu}}{\text{acre}} \cdot \frac{2 \text{ lbs}}{\text{acre}} = \frac{68 \text{ bu} \cdot \text{lbs}}{\text{acre}^2}$

3. Divide the following problem, cancel units if possible (reduce) 1
   (2 miles/ hour) / (21 bushels/ day)
   $\frac{2 \text{ mi}}{1 \text{ hr}} \cdot \frac{1 \text{ day}}{21 \text{ bu}} = \frac{2 \text{ mi} \cdot \text{day}}{21 \text{ hr} \cdot \text{bu}}$

4. Make a common denominator for the following and combine 1
   $\frac{xy}{cx} - \frac{p}{3} \left( \frac{3}{3} \cdot \frac{xy}{cx} \right) = \frac{3xy - pcx}{3cx}$

5. Change the following into a number: 6000%
   $60$

6. Change the following into a percentage: 0.0018
   $0.18\%$

7. Write 300 bushels as a fraction.

Bonus

$\frac{2x+1}{1} = \frac{\left(\frac{2y+3}{x}\right)}{x}$

$\frac{(2x+1)(xz)}{x^2y + 3/x}$