

Instructions: Show all work. Partial credit can only be given where work is shown. Be sure to answer all parts of each question. You may not use a calculator on this quiz.

1. Solve the proportions for the variable.

a. $\frac{3}{4}:8 = 9:x$

b. $\frac{15}{32} = \frac{x}{x+2}$

2. A farmer calculates that for every 100 seeds he plants, he harvests 84 ears of corn. If he wants to harvest 7200 ears, how many seeds should he plant?

3. 7.5 is what percent of 20?

4. Complete the table.

	Fraction	Decimal	Percent
a.	$\frac{1}{5}$		
b.		0.004	
c.			3.25%

5. An iPod is on sale for \$159.20 and the normal price is \$199. What is the discount being applied?