Quiz 4A, MTH 2010 – No Calculators Quiz 4A, MTH 2010 – No Calculators

Name:

1. (2 points) If you pay \$0.36 for 1.4 liters of water, how much would it cost to buy just 1 liter? Round your answer to the nearest cent.

- 2. (3 points) Five pumps begin draining a 320-gallon pool. At the same time, two pumps begin draining a 200-gallon pool. Assuming all pumps drain at the same rate, how many gallons are left in the smaller pool once the bigger pool is finished being drained?
 - (A) 64
 - (B) 72
 - (C) 128
 - (D) 136

3. (2 points) A hostess, waiter, and cook all work for the same restaurant. The waiter makes 50% more than the hostess, and the cook makes 200% of what the waiter makes. At the end of the night, they have made \$330 altogether. How much money did the hostess make?

4. (3 points) Below is a sample of student work:

12.	3	$12 \div 3$	4	15 .	5	$15 \div 5$	3	7	. 7	$7 \div 7$	1
	=		= -				= -		<u> </u>	=	= -
20 .	4	$20 \div 4$	5	8 .	4	$8 \div 4$	2	15	• 3	$15 \div 3$	5

Which of the following statements best describes the mathematical validity of the algorithm that the student appears to be using?

- (a) It is not valid for any rational numbers.
- (b) It is valid only when all numerators and denominators are integers.
- (c) It is valid only when all numerators and denominators are positive integers.
- (d) It is valid for all rational numbers.