## Math 002 P1

Name: Key

Quiz # 1

September 2, 2014 No electronic devices or interpersonal communication allowed. Show work to get credit.

(1) What property of real numbers is demonstrated by the equality  $2(\pi x) = (2\pi)x$ ?

Associativity of multiplication

(2) Find the prime factorization of 78.

2.3.13 2 39

(3) Find the least common multiple of 10, 12, and 22. (You may leave your answer as a product.)

 $10 = 2 \cdot 1 \cdot 5$   $12 = 2^{2} \cdot 3$  22 = 2 11 (= 660)

(4) Simplify (write as one fraction in least terms)  $\frac{1}{15} + \frac{6}{35}$ .

15 = 3.5 35 = 5.7  $= \frac{7}{3.5.7} + \frac{6.3}{3.5.7} = \frac{25}{3.5.7} = \frac{5}{3.7} = \frac{5}{21}$  (cm = 3.5.7)

(5) Simplify (write as one fraction in least terms)  $\frac{3}{8} \div \frac{6}{5}$ .

 $=\frac{3}{8}\cdot\frac{5}{6}=\frac{1}{8}\cdot\frac{5}{2}=\frac{5}{16}$