

Pre-Algebra Chapter 3 Pre-Test

- 1.) (5 points each, 10 points total) (3-1) Estimate using clustering technique. Clearly demonstrate clustering and write down the rounded answer. **Do not use a decimal in your answer!**

a) $12.3 + 11.1 + 12.9 + 13.2 + 10.7$

b) $24.2 + 25.7 + 26.1 + 24.8 + 24.4$

- 2.) (5 points each, 10 points total) (3-2) Estimate. Clearly demonstrate your rounded work and write down the rounded answer. **Do not use a decimal in your answer!**

a) $95.4 \div 15.8$

b) 26.2×11.5

3.) (5 points each, 15 points total) (3-3) Find the mean, median, and mode of each set.

a) 8, 13, 12, 7, 9, 12

b) 21, 32, 26, 30, 27

c) 45, 56, 52, 48, 49, 56

4.) (5 points each, 10 points total) (3-4) Use the given formula to solve.

An Uber fare is determined by the following formula:

$$C = 1.25m + 2.75$$

With C equal to the cost of the fare and m represents the number of miles. How much would each of the following fares be?

a) $m = 24$

b) $m = 15$

5.) (5 points each, 55 points total) (3-5 & 3-6) Solve. While you may use a calculator, **you must show all work.**

a) $9.36 + k = 14.8$

b) $3.8 = n - 3.62$

c) $x + 82.7 = 63.5$

d) $-4.095 + b = 18.665$

e) $y - 15.48 = -22.39$

f) $\frac{p}{2.9} = 0.55$

g) $-9k = 2.34$

h) $1.5m = 3.03$

i) $\frac{a}{27} = -32.3$

j) $7.2x = 61.2$

k) $277.4 = \frac{n}{3.5}$