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) 
$$m = 24$$
  
 $C = 1.25m + 2.75$   
 $1.25(24) + 2.75$   
 $30 + 2.75 = 32.75$ 

b) m = 15

5.) (5 points each, 55 points total) (3-5 & 3-6) Solve. While you may use a calculator, <u>you</u> <u>must show all work.</u> 7

a) 
$$9.36 + k = 14.8$$
  
 $-9.36 - 9.36$   
 $k = 14.8 - 9.36$   
 $k = 14.8 - 9.36$   
 $(k = 5.44)$   
b)  $3.8 = n - 3.62$   
 $+ 3.62 + 3.62$   
 $n = 3.8 + 3.62$   
 $n = 7.42$   
c)  $x + 82.7 = 63.5$ 

d) -4.095 + b = 18.665

e) y - 15.48 = -22.39

$$\begin{array}{c} 2.9\\ (\frac{p}{2.9}) = (0.55) 2.9\\ (1) \left(\frac{p}{2.9}\right) = (0.55) 2.9\\ (2) = (0.55) (2.9)\\ (2) = 1.595\\ (2) =$$

h) 1.5m = 3.03

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

j) 
$$7.2x = 61.2$$

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

S-PA Pre-Algebra Sessim II 
$$7/13$$
  
Divisibility Rules  
Rule of 2: If a number ende in 0,2,46,8  
it is evenly divisible by 2  
Rule of 5: If a number ende in 0,5  
it is evenly divisible by 5  
Rule of 10: If a number endo in 0  
it is evenly divisible by 10  
Rule of 3: If the sum of the digits in a  
number is evenly divisible by 3  
then the number itself is evenly  
divisible by 3.  
18: 1+8 = 9  
Juivisible by 3.  
19: 1+2 = 3  
372: 3+7+2 = 12  
Juivisible by 3.  
10: 1+2 = 3  
11: 1+2 = 3  
12: 1+2 = 3  
34: 3+9 = 12  
12: 1+2 = 3  
13: 1+2 = 3  
14: 1+2 = 3  
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15: 18: 24: 32: 33 = 39  
34: 3+9 = 12  
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Rule of 9: If the sum of the digits in a  
number is evenly divisible by 9,  
then the number is evenly divisible  
by 9  
361, 827: 
$$3+b+1+8+2+7$$
  $27: 2+7=9$   
9 to 18 20 27  
7 35 (A) 2 8 0, 9 79  
1+3+5+2+8+0+9+7+9=50  
50 54  
5+4=9  
Find the factors of 78  
R2: 2 \* 39  
If ends in 0, 2, 4, 6, 8 then 15: 1+5: 6  
18  
R3: 3 \* 26  
If R2 of R3 apply, then it is 1\*78 3\*26  
divisible by 6 (2\*3) 2\*39  
R5: NO R10: No

Prime Factorization  

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