1. Express the following in decimal form:

(A) 
$$\frac{3}{7}$$
 (E)  $\frac{9+4(5)}{10}$  (I)  $\frac{3}{7}/\frac{4}{5}$ 

(B) 
$$\frac{321}{695}$$
 (F)  $\frac{-5+6}{2}$  (J)  $\frac{3}{7} \cdot \frac{4}{5}$ 

- (C)  $\frac{5 12}{17}$  (G) 85%
- (D)  $\frac{9(5)+4}{8}$  (H) 8.5%

## 2. Compute:

(A) $5^2$	(E) $\sqrt{81}$	(I) 1/3 + 2/5
(B) $7^2$	(F) $\sqrt{25 + 81}$	(J) $\frac{3}{-4} + \frac{5}{7}$
(C) 5 • 7	(G) 85% of 20	(K) $\sqrt{9+(4)(7)}$
(D) $\sqrt{25}$	(H) one third of 60	(L) the square of 8

3. Evaluate y = mx+b using m=5, x=8, b=4

4. Evaluate  $y = \frac{a - bx}{n}$  if a=50, b=6, x=4, n=20

5. Evaluate  $y = \frac{a - bx}{n}$  if a=50, b = -6, x=4, n=20

- 6. Give the value of the slope and the y-intercept for the line SLOPE Y-INTERCEPT
  - (A) Y = -X/2 + 10
  - (B) Y = 5 + x
  - (C) 2Y + 3X -10 = 0

7. "X is greater than 3" can be abbreviated as "X > 3". Using the symbols >, <,  $\geq$  or  $\leq$ , write an appropriate abbreviation for each of the following: (A) R cannot be greater than 1

- (B) 9 is smaller than 10
- (C) X is at least 7
- (D) Z is less than -1.96
- (E) Z is greater than or equal to -1.96
- (F) X is more than 7
- 8. 30 is what percentage of 85?
- 9. Be familiar with the graph of a straight line

Answers: #1: 0.429, 0.462, -0.412, 6.125, 2.9, 0.5, 0.85, 0.085, 0.536, 0.343, #2:25, 49, 35, 5, 9, 10.296, 17, 20, 0.733, -0.036, 6.083, 64 #3: 44, #4: 1.3, #5: 3.7, #6: -1/2 & 10, 1 & 5, -1.5 & 5. #7.  $R \le 1$ , 9 < 10;  $X \ge 7$ ; Z < -1.96; Z  $\ge$  -1.96; X > 7. #8: 35.294%