## Stats 1123 \& 1124 - Practice Math Problems - Version 201604

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) $5 \bullet 7$
(G) $85 \%$ of 20
(K) $\sqrt{9+(4)(7)}$
(D) $\sqrt{25}$
(H) one third of 60
(L) the square of 8
3. Evaluate $y=m x+b$ using $m=5, x=8, b=4$
4. Evaluate $y=\frac{a-b x}{n}$ if $\mathrm{a}=50, \mathrm{~b}=6, \mathrm{x}=4, \mathrm{n}=20$
5. Evaluate $y=\frac{a-b x}{n}$ if $\mathrm{a}=50, \mathrm{~b}=-6, \mathrm{x}=4, \mathrm{n}=20$
6. Give the value of the slope and the y-intercept for the line
(A) $Y=-2 x+10$
(B) $Y=5+x$
(C) $2 Y+3 X-10=0$
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: $0.429,0.462,-0.412,6.125,2.9,0.5,0.85,0.085,0.536,0.343, \# 2: 25,49,35,5,9,10.296,17,20,0.733$, $-0.036,6.083,64 \# 3: 44, \# 4: 1.3, \# 5: 3.7, \# 6:-2 \& 10,1 \& 5,-1.5 \& 5 . \# 7 . R \leq 1,9<10 ; x \geq 7 ; z<-1.96 ; z \geq-1.96 ;$ X > 7. \#8: 35.294\%

