Ch4 Sec 5 (1,3,5,6,7,13,15,23,27) 1) (a) 1-0.1977=0,8023 5) 0.9032-0.6554 = 0.2478 C) 0.8159-0.3821=0.4338 2) 1-0,3264+0.0668 = 0.7404 3) 9)1-0,1537=0,8413 C=1 b) 0.5-0.4772=0.0228 C=-2.0 C) 1-0.8664 (2=0.0668 C=1.5 2) 0.5+0.2967=0.7967 c=0.83 e) 0.470/2 = 0.0735 C=1.45 5) (a) P(x=25)=P(ZL-1.25) = 0.1056 = 10.56% 5) P(x-25.16-6.1024)=0.10 P (X624-9976) = 0.10 24.99 = 10th per. c) P(Z = 1.25) = 0.0944 2) P(Z < 2.5)-P(Z <-1.25) 0,9933-0,1056 (1) P (X-822 Z 1.28) = 010 784.88 - 10th per P (X < 748.88)=0.10 b) P(ZZ-1.45) = 0.0735 7th percentile C) P(Z60.29)-P(Z6-0.76) 0.6103-0.2236=0.3367=33.671

9) a) 
$$(1800-1400)/200 = 2$$
 $1-P(2=2) = 1-0.9772 = 0.0278$ 
b)  $-1.28 = x - 1400 = 1144 \text{ M/s}.$ 
c)  $(1645-1400)/200 = 1.23$ 
 $2) 1550-1400 = -6.25 | 1550-1400 = 0.75$ 

13) a)  $\frac{1}{2}(15) - \frac{1}{2}(14.88) = 0.066m$ 
 $\frac{13}{20} = 0.75$ 
13)  $\frac{1}{1}(0.025)^2 + \frac{1}{1}(0.015)^2 = 0.014586m$ 
c)  $\frac{1}{1}(0.025)^2 + \frac{1}{1}(0.015)^2 = 0.014586m$ 
e)  $\frac{1}{0.01458} = 0.069$ 
2)  $\frac{1}{0.01458} = 0.0145$ 
3)  $\frac{1}{0.01458} = 0.0145$ 
4)  $\frac{1}{0.01458} = 0.0145$ 
5)  $\frac{1}{0.01458} = 0.0145$ 
6)  $\frac$ 

27) (a) 107+109+--+124/12=114.835 11072-11072 .... /11 = 5.006 J 5) 100-114-83 = -2-96 5.006 C) 108+110+ ... + 140/12 = 117.083 1108241102 + ... /11 = 8.29 J 100-117.08 | 8.29 = -2.05 2) The sample c is stronger e) No, because there are outelows.