$$Z = \frac{90 - 100}{200} = -.5$$

1/4/lice

(2)
$$\mu = 4$$

 $\sigma = 0.25$
 $\times \sim N(4,.0625)$

$$Z = \frac{4.5-4}{.25} = 2$$

3)
$$\mu = 14$$
 $\sigma = 4$
 $\times \sim N(14,16)$

$$Z = 10-14 = -1$$
 $P(Z < -1) \approx 159 (334)$

$$4 \mu = 551.3$$
 $\sigma = 15$

$$P(x > 550)$$

Z= 550-551.3 = -.1

$$Z = 475-500 = 7.25$$
 20
 $P(Z < -1.25) \approx [.106 (35f)]$

$$n=3$$

$$r=3$$

$$\binom{n}{r}\binom{p}{(1-p)^{n-r}}$$

$$= {3 \choose 3} (.106)^3 (.894)^0$$
$$= [.00119 (3SF)]$$