The Acea lies between - Z and Z is 45%.

From the standard normal toble V-1- we get 2 = -1,960

98% of the are under the student normal corre lies between the Z values - 1.440

$$Z = \frac{x - \mu}{\sigma} = \frac{55 - 50}{3} = 1.44$$

A)
$$V\bar{X} = P = 50$$
 b) $\sigma \bar{X} = \frac{\sigma}{\sqrt{149}} = \frac{15}{7} = 2.143$

c)
$$P(24 \le x \le 32) = P(\frac{24-25}{2.143}) \le Z \le \frac{32-25}{2.143}$$

= P(-0.4666 Z 6 3.266) = 0.9995 - 0.3204

4) A) yes it is appropriate to use normal approximation to the binomial burn

$$\frac{1}{2} = \frac{1 - 99}{2} = 0.005$$

: 126 > 10

b) 600 x 170 = 420

= J600 x . 70 x 0 . 3

= 11.2250