$$n(1-p) = 400 \times 0.85 = 340 > 10$$

$$\mu = np = 60$$

$$\mu = np = 60$$

$$\sigma = \sqrt{np(1-p)} = \sqrt{400 \times 0.15 \times 0.85} = 7.14$$

$$\sqrt{\frac{1}{2}} = \sqrt{\frac{1}{2}} = \sqrt{\frac{1}{2}}$$
Normal ($\mu = 60$, $\sigma = 7.14$) $= \sqrt{\frac{1}{2}} = 0.0059$

$$P(X = 42) = 0.0059$$

$$Z = \frac{x - \mu}{\sigma} = \frac{42 - 60}{7.14}$$

= -2.52

$$P(Z<-2.52)=0.0059$$

$$Z_{L} = \frac{48.5 - 60}{7.14} = -1.61$$

$$Z_{u} = \frac{61.5 - 60}{7.14} = -1.19$$

$$P(X < 51.5) - P(X < 48.5)$$

 $P(Z < -1.19) - P(Z < -1.61)$

$$= 0.1170 - 0.0537$$