$$295 \pm 55$$
 $U = n\phi = 76$
 $\sigma = \frac{20.5}{\sqrt{35}} = 3.465$

$$56) \quad u = 108.3$$

$$\sigma = \frac{35.1}{\sqrt{40}} = 5.55$$

$$59)$$
 a) $\sigma = \frac{1500}{\sqrt{45}} = 223.6$ $\frac{29000-29200}{223.6} = -8945$

b)
$$\frac{31000-29200}{223.8} = 8.09 = 10.00$$

 $60.4\times10^{-16} \approx 0$

$$60) \frac{250}{\sqrt{3}6} = 41.67$$

b)
$$1150-1300$$

 $1941.67 = -3.6882$ 1000
 $1941.67 = -3.6882$

61)
$$\frac{500,000}{\sqrt{15}} = 129,099,49$$

$$\frac{1,125,000-1,500,000}{129,099,49} = -2.9047 - vpper
$$p(<1.125) = .0018$$$$

$$\frac{30}{515} = 7.7460$$

$$\frac{525 - 500}{7.7460} = 3.2275 \qquad P(>525) = .0006$$

(3)
$$np = 12(.96) = 11.52$$
 $nq = 12(.04) = 0.48$
 $cannot use normal distribution$

because $nq < 5$

64)
$$p = 30(.75) = 22.5$$
 $pq = 30(.25) = 7.5$
 $pq = \sqrt{30(.75)(.25)}$
 $pq = 2.37$

69)
$$45(.67) = 36.15$$
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 $45(.67)$

11)
$$35(.81) = 28.35$$

 $35(.19) = 6.65$
Yes

$$M = 28.35$$

$$C = \sqrt{35(.81)(.19)}$$

$$= 2.3209$$

(2)
$$\frac{20.5-28.35}{2.3709} = -3.3823 - Upper$$
 $P(\leq 20) = +3.599 \times 10^{-9}$
 $P(\leq 20) = +3.599$