8. Used staterunch - One sample t summary

$$\overline{X} = 59.2$$
 H₀: $M = 67.7$ t-stat: -2.29.7
S = 14.8 H₀: $M < 67.7$ p·value: 0.0182
 $M = 100$

$$S = \frac{8}{100} = \frac{275}{180} = 30.7459$$

 $P(\bar{x} > 961) = 0.5646$

10.
$$M = 48$$

 $O = 13.5$
 $N = 50$
 $Z = 2$
 $48 \pm 2 \times \frac{3.5}{\sqrt{50}}$
 $48 \pm 3.81.84 = 44.1816$
 51.8184

12.
$$\mu = 45$$
.
 $\theta = 4.3$ $m = 2.576* \frac{4.3}{\sqrt{48}} = 1.60$
 $n = 48$
 $z = 2.576$

13.
$$\mu = 36$$
 $M_{\overline{x}} = 38$

$$0 = 26.9$$

$$N_{\overline{x}} = \frac{6}{10} = \frac{26.9}{156} = 3.5947$$

14.
$$p = .35$$
 $O_p = \sqrt{.35(1-.35)} = .03442$

used stat crunch -> nor mal calculator

15.
$$P(R) = 2/13$$

 $P(W) = 9/13$
 $P(Y) = 2/13$