

12.5 pg. 666-668 # 2-20, 26, 28.

2. $\frac{27}{60} = .45 = 45\%$

4. undercoverage - misses other kinds of shoppers

6. undercoverage - misses drivers, extra-curricular kids

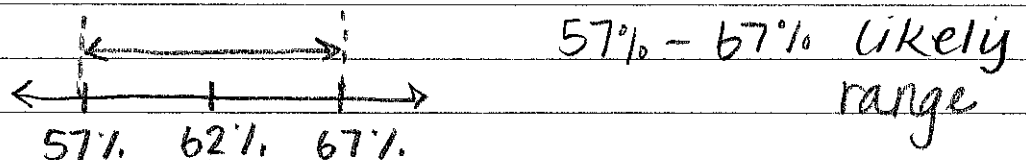
8. Group B. It looks more jumbled where as Group A has a smoother curve

10. $m = \pm \frac{1}{\sqrt{n}}$ $m = \pm \frac{1}{\sqrt{800}}$ $m = \pm \frac{1}{28.28}$ $= \pm .035 \approx \pm 4\%$

12. $m = \pm \frac{1}{\sqrt{n}}$ $.08 = \frac{1}{\sqrt{n}}$ $\frac{.08\sqrt{n}}{.08} = \frac{1}{.08}$ $(\sqrt{n})^2 = (12.5)^2$
 $n = 156$

14. $m = \pm \frac{1}{\sqrt{n}}$ $.01 = \frac{1}{\sqrt{n}}$ $\frac{.01\sqrt{n}}{.01} = \frac{1}{.01}$ $(\sqrt{n})^2 = (100)^2$
 $n = 10000$

16. $m = \pm \frac{1}{\sqrt{n}}$ $m = \frac{1}{\pm \sqrt{400}}$ $m = \frac{1}{\pm 20}$ $m = \pm 5\%$



18. $\frac{460}{500} = .92 = 92\%$ $m = \frac{1}{\pm \sqrt{n}}$ $m = \frac{1}{\pm \sqrt{500}}$ $m = \pm 4\%$

likely range 88% - 96%

$$20. \quad \frac{1}{16} = 6\% \quad m = \frac{1}{\pm\sqrt{16}} \quad m = \frac{1}{4} \quad m = \pm 25\%$$

likely range 0% - 31%

$$26. \quad \frac{96}{900} = 11\% \quad m = \frac{1}{\pm\sqrt{900}} \quad m = \frac{\pm 1}{30} \quad m = \pm 3\%$$

$$28. \quad \frac{100}{250} = 40\% \quad m = \frac{1}{\pm\sqrt{250}} \quad m = \frac{\pm 1}{15.8} \quad m = \pm 6\%$$