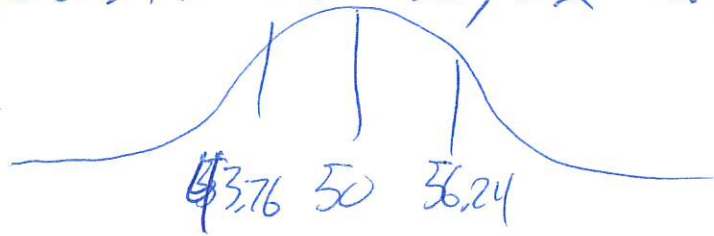
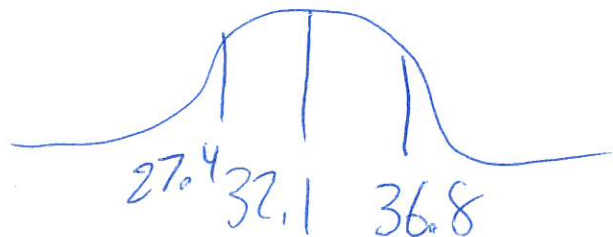


Stats Review

1 a) ~~Mean~~ Test A: $\bar{x} = 50, S_x = 6.24$



Test B: $\bar{x} = 32.1, S_x = 4.7$



b) A: $z = \frac{54 - 50}{6.24} = .641$

B: $z = \frac{37 - 32.1}{4.7} = 1.04$

Better on
Test B

2) a) $z = \frac{144 - 128}{34} = \frac{16}{34} = .47$

b) $z = \frac{90 - 86}{18} = \frac{4}{18} = .22$

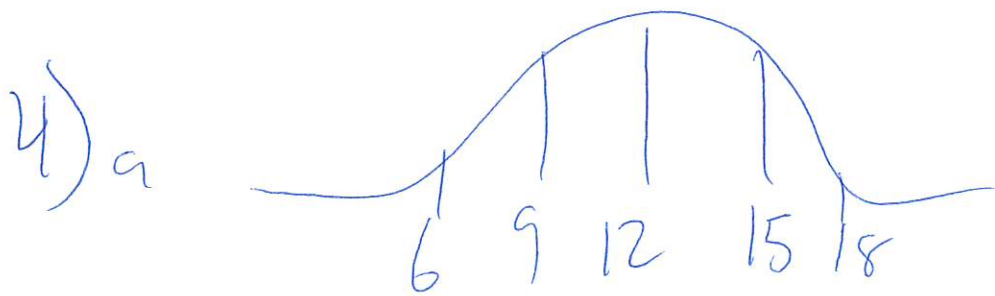
c) $z = \frac{18 - 15}{5} = \frac{3}{5} = .6$

Best score

3) $-3.4003 = \frac{x - 7500}{1750}$

$-5950.53 = x - 7500$

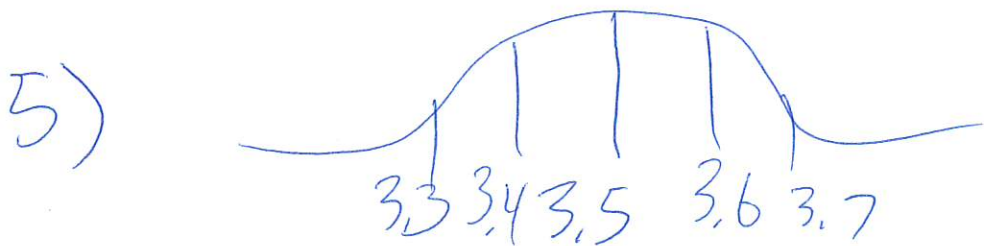
$x = 1549.473$



b) 34%

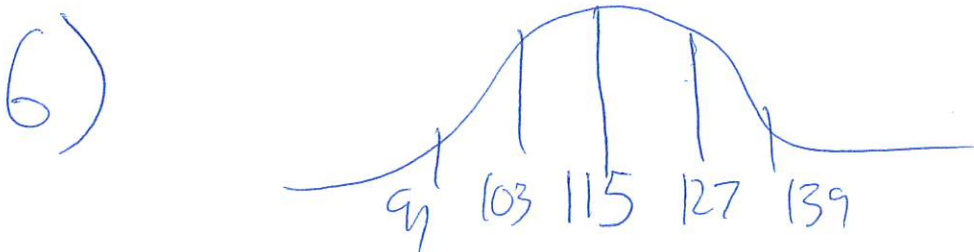
c) 2.5%

d) 16%



b) $34 + 47.5 = 81.5\%$, so 815 disks

c) 2.5% of 1000 = 25 disks



b) $\text{Normcdf}(0, 100, 115, 12) = .105 = 10.5\%$

c) $\text{Normcdf}(130, 9999, 115, 12) = .105 = 10.5\%$

d) $\text{Normcdf}(110, 130, 115, 12) = .355 = 35.5\%$

e) $\text{Normcdf}(0, 95, 115, 12) = .047 = 4.7\%$

f) SKIP

7) Normal $F(0, 45, 52, 5) = .08 = 8\%$

8) ANSWERS VARY

a) Biased wording & 2 questions in one

b) Biased wording (opinion)

c) Biased wording (conformity)

d) 2 questions in one

e) Biased wording (appeal to authority)

f) Non-exhaustive answer choices

g) Non-exhaustive answer choices

9) Surveys only people who shop at that dealership (undercoverage)

10) C is the best.

11) Honolulu is always hotter and much less variable.

12) a) team 1 has the highest mean (Jaguars)

b) Wolves has highest median

c) Mean is better for Lions

