

STA 6126 - PRACTICE PROBLEM SOLUTIONS

QB.1. Nominal, Interval, Ordinal

QB.2. FALSE

QB.3. Nominal, Interval, Ordinal

QB.4. Stratified Systematic

QB.5. FALSE

QB.6. I N O

QB.7. TRUE

QB.8. N I O

QB.9. Stratified Systematic

QB.10. FALSE

QB.11. FALSE

QB.12. TRUE

QB.13. FALSE

QB.14. TRUE

QB.15. TRUE

QB.16. TRUE

QC.1. FALSE

QC.2. 45 Low .1867 No

QC.3. Mean = 21 Median = 20 S = 2.828

QC.4. 130 Median = 31-60 Mode = 31-60

QC.5. Mean = 4 Median = 2 S = 5.244

QC.6. FALSE

QC.7. 30 31-60 .24 No

QC.8. Mean = 6 Median = 5 S = 4.336

QC.9. See QC.4. and QC.5.

QC.10. TRUE

QC.11. TRUE

QC.12. TRUE

QC.13. 2.5 1 2.4

QC.14. 4 4.848

QC.15. FALSE

QC.16. 5 1

QC.17. Mean = 16 Median = 16 S = 5.099

QD.1. TRUE

QD.2. (673.2, 986.8)

QD.3. $\bar{Y} \sim N(1000, 20)$ $\hat{\pi} \sim N(.20, .0133)$

QD.4. .0401 .2266 10.84

QD.5. $N(80, 2)$ $N(.60, .0245)$

QD.6. .0062 127.86

QD.7. $N(500, 5)$ $N(.50, .05)$

QD.8. See QD.4.

QD.9. see QD.5.

QD.10. .0668

QD.11. TRUE

QD.12. .1056 1329

QD.13. $a = .1216$ $b = .2000$ $c = .2784$

QE.1. FALSE

QE.2. .2514 67.935 ,0038

QE.3. (2.5608, 2.6392) No No

QE.4. (.5377, .6023)

QE.5. (2.82, 4.78)

QE.6. (3.71, 4.69) No No

QE.7. (.049, .101) No

QE.8. SEE QE.5.

QE.9. FALSE

QE.10. FALSE

QE.11. (13.52, 15.48)

QE.12. FALSE

QE.13. TRUE

QE.14. FALSE

QE.15. (5.65, 10.35)

QE.16. 96

QE.17.	Correct	INCORRECT (CERTAIN)	Incorrect	CORRECT
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QE.18.	.05 .20	(.122, .278)	6147	
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QE.19. C

QE.20. B

QE.21. 2401

(1) QE.22. (12.8698, 17.131)

(2) QE.22. D.

QE.23. 171

QE.24. 475.

QE.25. TRUE