Answer Review Criteria

Question 1: (4)

1. Correct application of the Kruskal-Wallis test.
2. Proper interpretation of p-value
3. significance level (5%).
4. Conclusion about whether there is evidence of a difference in the medians.

Question 2: (4)

1. a.53.6603
2. b. residual=-3.6603
3. b. explanation of residual
4. c. explanation of s and R2

Question 3: (1)

fail to reject H0, do not have convincing evidence

Question 4: (4)

1. a. shape: approximately normal
2. a. center: 0.08
3. a. variability: 0.012
4. b. P=0.0478

Question 5: (5)

1. a. shape: approximately normal
2. a. center: 0.898
3. a. variability: 0.028
4. b. P=0.0314
5. c. P=0.3805

Question 6: (5)

1. a. shape: approximately normal
2. a. reason of shape
3. b. 0.20
4. c. 0.0714
5. d. 0.9975/0.9974

Question 7: (10)

1. a. yes
2. b. 98.293
3. b. 0.117
4. c. 0.155
5. d. 0.794
6. e. 95%: (0.613, 0.0901)
7. f. big impact. changes:
8. f. y=97.5+0.0757x. to y=97.28+0.1603x
9. f. s 0.155 to 0.291
10. f. R2 0.794 to 0.616

Question 8: (3)

1. p\_v of 0.005<a=0.05
2. reject H0
3. there is convincing evidence at least one

Question 9: (8)

1. a. a linear relationship is plausible
2. b. y=31.04
3. b. t=-4.25
4. b. p0
5. c. PI=(1.42, 14.33)
6. c. CI=(6.42, 9.32)
7. d. PI=(4.69, 18.00)
8. d. CI=(9.18, 13.52)

Question 10: (6)

1. a. 0.873
2. b. 0.007
3. c. 0.716
4. d. 0.277
5. e. 1.25
6. e. 1.09