

Name: _____

Due Date: _____

Teacher: _____

Parent Sign: _____

Dot plots (Q1–Q10)

1. Dot plot A: 3, 3, 4, 4, 4, 5, 6. Dot plot B: 2, 3, 4, 4, 5, 5, 6. Which has the larger mean?
2. Dot plot A: 1, 2, 2, 3, 3, 4. Dot plot B: 2, 2, 3, 3, 3, 4. Which has the larger median?
3. Dot plot A: 5, 5, 6, 6, 7. Dot plot B: 4, 5, 6, 7, 8. Which has the larger mean?
4. Dot plot A: 10, 10, 11, 12, 12, 12, 13. Dot plot B: 9, 10, 11, 12, 12, 13, 14. Which has the larger range?
5. Dot plot A: 0, 1, 1, 2, 2, 2, 3, 4. Dot plot B: 1, 1, 1, 2, 3, 4, 4, 4. Which has the larger range?
6. Dot plot A: 2, 4, 4, 4, 5, 6. Dot plot B: 3, 3, 4, 4, 5, 6. Which has the larger mean?
7. Dot plot A: 7, 8, 9, 9, 10. Dot plot B: 6, 7, 8, 9, 11. Which has the larger mean?
8. Dot plot A: 1, 1, 1, 1, 2, 2. Dot plot B: 1, 2, 2, 2, 3, 4. Which has the larger median?
9. Dot plot A: 0, 5. Dot plot B: 1, 4. Which has the larger range?
10. Dot plot A: 2, 3, 3, 3, 3, 3. Dot plot B: 3, 3, 3, 3, 4, 5. Which has the larger mean?

Histograms (frequencies for integer values) (Q11–Q25)

11. Histogram A (values 1–5): 1:2, 2:3, 3:4, 4:1, 5:0. Histogram B (1–5): 1:1, 2:2, 3:4, 4:2, 5:1. Which has the larger mean?
12. Histogram A: 1:0, 2:1, 3:2, 4:3, 5:4. Histogram B: 1:4, 2:3, 3:2, 4:1, 5:0. Which has the larger median?
13. Histogram A: 1:5, 2:0, 3:0, 4:0, 5:0. Histogram B: 1:0, 2:0, 3:0, 4:0, 5:5. Which has the larger mean?
14. Histogram A: 1:2, 2:2, 3:2, 4:2, 5:2. Histogram B: 1:0, 2:0, 3:10, 4:0, 5:0. Which has the larger range?
15. Histogram A: 1:3, 2:3, 3:3, 4:1 (total 10 values). Histogram B: 1:0, 2:5, 3:0, 4:5 (total 10 values). Which has the larger mean?
16. Histogram A: 1:1, 2:1, 3:1, 4:1, 5:6. Histogram B: 1:2, 2:2, 3:2, 4:2, 5:2. Which has the larger mean?
17. Histogram A: 1:4, 2:4, 3:2. Histogram B: 1:1, 2:1, 3:8. Which has the larger median?
18. Histogram A: 1:6, 2:2, 3:1, 4:1. Histogram B: 1:1, 2:1, 3:2, 4:6. Which has the larger mode value (the value where frequency is highest)?
19. Histogram A: 1:2, 2:2, 3:6. Histogram B: 1:3, 2:3, 3:4. Which has the larger mean?
20. Histogram A: 1:0, 2:10. Histogram B: 1:5, 2:5. Which has the larger mean?
21. Histogram A: 1:2, 2:3, 3:5. Histogram B: 1:3, 2:4, 3:3. Which has the larger median?
22. Histogram A: 1:4, 2:6. Histogram B: 1:5, 2:5. Which has the larger mean?
23. Histogram A: 1:1, 2:1, 3:1, 4:7. Histogram B: 1:0, 2:0, 3:9, 4:1. Which has the larger mean?
24. Histogram A: 1–5 each with frequency 2 (uniform). Histogram B: 5 with frequency 10 (all fives). Which has the larger mean?
25. Histogram A: 1:0, 2:2, 3:8. Histogram B: 1:2, 2:8, 3:0. Which has the larger median?

Box plots (five-number summaries) (Q26–Q39)



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26. Box plot A: min 2, Q1 4, median 6, Q3 8, max 10. Box plot B: min 1, Q1 5, median 6, Q3 7, max 11. Which has the larger IQR?
27. Box plot A: min 0, Q1 2, median 3, Q3 4, max 10. Box plot B: min 1, Q1 2, median 3, Q3 5, max 9. Which has the larger range?
28. Box plot A: min 5, Q1 6, median 7, Q3 8, max 9. Box plot B: min 4, Q1 6, median 7, Q3 9, max 12. Which has the higher maximum?
29. Box plot A: min 10, Q1 12, median 14, Q3 16, max 18. Box plot B: min 9, Q1 11, median 13, Q3 15, max 17. Which has the larger median?
30. Box plot A: min 0, Q1 1, median 2, Q3 3, max 4. Box plot B: min 0, Q1 0, median 2, Q3 4, max 4. Which has the larger Q1?
31. Box plot A: min 2, Q1 3, median 5, Q3 7, max 9. Box plot B: min 2, Q1 4, median 6, Q3 8, max 10. Which has the larger IQR?
32. Box plot A: min 1, Q1 3, median 4, Q3 6, max 7. Box plot B: min 0, Q1 2, median 4, Q3 5, max 6. Which has the larger range?
33. Box plot A: min 3, Q1 4, median 5, Q3 6, max 7. Box plot B: min 1, Q1 2, median 5, Q3 8, max 10. Which has the larger range?
34. Box plot A: min 0, Q1 2, median 2, Q3 3, max 5. Box plot B: min 0, Q1 1, median 2, Q3 4, max 5. Which has the larger median?
35. Box plot A: min 1, Q1 2, median 3, Q3 4, max 5. Box plot B: min 2, Q1 3, median 4, Q3 5, max 6. Which has the larger minimum?
36. Box plot A: min 4, Q1 5, median 5, Q3 6, max 7. Box plot B: min 3, Q1 5, median 5, Q3 6, max 9. Which has the larger maximum?
37. Box plot A: min 2, Q1 3, median 4, Q3 6, max 8. Box plot B: min 1, Q1 2, median 3, Q3 5, max 7. Which has the larger IQR?
38. Box plot A: min 0, Q1 1, median 1, Q3 2, max 3. Box plot B: min 0, Q1 1, median 2, Q3 2, max 3. Which has the larger median?
39. Box plot A: min 5, Q1 7, median 9, Q3 11, max 13. Box plot B: min 6, Q1 8, median 10, Q3 12, max 14. Which has the larger median?

Cross-type comparisons (dot plot vs histogram vs box plot) (Q40–Q50)

40. Dot plot A: 1, 2, 3, 4, 5. Histogram B: 1:1, 2:1, 3:1, 4:1, 5:1. Which has the larger mean?
41. Dot plot A: 1, 1, 1, 1, 5. Histogram B: 1:2, 5:3 (so data B = 1,1,5,5,5). Which has the larger mean?
42. Dot plot A: 3, 4, 4, 5, 6. Box plot B: min 3, Q1 4, median 4, Q3 5, max 6. Which has the larger median?
43. Histogram A: 1:5, 2:5 (ten values). Box plot B: min 1, Q1 1.5, median 2, Q3 2.5, max 3. Which has the larger median?
44. Dot plot A: 2, 3, 4, 5, 6, 7. Box plot B: min 3, Q1 4, median 5, Q3 6, max 7. Which has the larger range?
45. Dot plot A: 4, 4, 4, 4, 5. Box plot B: min 4, Q1 4.5, median 5, Q3 5.5, max 6. Which has the larger median?



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46. Histogram A: 3:5, 4:5 (ten values). Box plot B: min 2, Q1 2.5, median 3, Q3 3.5, max 4. Which has the larger median?
47. Dot plot A: 10, 12, 12, 13, 15. Box plot B: min 10, Q1 12, median 13, Q3 16, max 20. Which has the larger median?
48. Histogram A: 1:3, 2:4, 3:3. Box plot B: min 1, Q1 2, median 3, Q3 4, max 5. Which has the larger median?
49. Dot plot A: 0, 0, 1, 1, 1, 2. Box plot B: min 0, Q1 0.5, median 1, Q3 1.5, max 2. Which has the larger IQR?
50. Histogram A: 1:2, 2:6, 3:2 (ten values). Box plot B: min 1, Q1 2, median 2, Q3 2, max 3. Which has the larger median?