



Statistics & Data

Name: _____

Grade: 6

Date: _____

*Find mean, median, mode, range, interpret dot & box plots, and analyze distribution.
Apply in real contexts and check for errors.*

Part 1 · Mean, Median, Mode, Range

CENTER

1. Data: 6, 8, 10, 12, 14. Mean = _____

2. Median = _____

3. Mode = _____

4. Range = _____

5. Add 8 to set above. New mode = _____

6. Add 20 to set above. New range = _____

Part 2 · Dot & Box Plots

PLOTS

7. Dot plot: 2,2,3,4,4,4,5. Mode = _____

8. Median = _____

9. Range = _____

10. Box plot: min 3, Q1 5, median 7, Q3 9, max 12. Range = _____

11. IQR = _____

12. Distribution shape: 2,3,4,5,6,7,8,9,10 (describe) _____

Part 3 · Real Contexts REAL

13. Test scores: 80, 85, 90, 95, 100. Mean = _____

14. Median = _____

15. Range = _____

16. Add 70. New mean = _____

17. Add 110. New range = _____

18. Reflection: Most helpful strategy? _____

Part 4 · Error Analysis FIX

19. Error: Mean of 6,8,10,12,14 is 12. Correct & mistake: _____ /

20. Error: Range of 2,3,4,5,6 is 4. Correct & why: _____ / _____

21. Error: Mode of 2,2,3,4,4,4,5 is 2. Correct & why: _____ / _____

Part 5 · Challenge CHALLENGE

22. Data: 5,7,9,11,13. Add one number to make mean 10. Number = _____

23. Data: 2,4,6,8,10. Add one number to make mode 8. Number = _____

24. Data: 3,5,7,9,11. Add one number to make median 7. Number = _____

25. Data: 4,6,8,10,12. Add one number to make range 20. Number = _____

26. Data: 2,4,6,8,10. Add one number to make mean 7. Number = _____

27. Reflection: Most helpful strategy? _____

Answer Key

1. 10
2. 10
3. none
4. 8
5. 8
6. 14
7. 4
8. 4
9. 3
10. 9
11. 4
12. Symmetric
13. 90
14. 90
15. 20
16. 86.67
17. 40
18. Varies
19. 10 / added not averaged
20. 8 / max-min not count
21. 4 / most frequent not smallest
22. 15
23. 8
24. 7
25. 24
26. 12
27. Varies

Accept equivalent forms. Reflection varies.