Statistics & Probability

Name:	Grade: 7	Date:

Find mean, median, mode, range, interpret data displays, and solve probability problems. Analyze errors and tackle challenges.

Part 1 · Mean, Median, Mode, Range CENTER

Part 2 · Data Displays DISPLAYS

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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 · Probability Basics
13. Probability of heads in fair coin?
14. Probability of rolling a 3 on a standard die?
15. Probability of picking red from bag with 3 red, 2 blue?
16. Probability of picking blue from bag above?
17. Probability of picking green from bag above?
18. Probability of rolling even number on die?
Part 4 · Compound Events COMPOUND
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19. Probability of heads then tails in 2 coin flips?

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20. Probability of rolling 2 then 5 on two dice?
 21. Probability of picking red then blue from bag above?
22. Probability of picking two reds in a row (no replacement)?
23. Probability of rolling odd then even on die?
24. Reflection: Most helpful strategy? _____
Part 5 · Error Analysis ERROR
 25. Error: Mean of 7,9,12,15,17 is 17. Correct & mistake?
26. Error: Range of 2,3,4,5,6 is 4. Correct & why?
27. Error: Mode of 2,2,3,4,4,4,5 is 2. Correct & why?
Part 6 · Challenge & Reflection
28. Data: 5,7,9,11,13. Add one number to make mean 10. Number = _____
 29. Probability of rolling 2,3,4 in order on three dice?
30. Probability of picking red, blue, red from bag above?
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31. Reflection: Most helpful strategy? _____

Answer Key

- 1. 12
- 2.12
- 3. none
- 4. 10
- 5.9
- 6, 20
- 7.4
- 8.4
- 9.3
- 10.9
- 11. 4
- 12. Symmetric
- 13.1/2
- 14. 1/6
- 15. 3/5
- 16. 2/5
- 17.0
- 18. 1/2
- 19.1/4
- 20.1/36
- 21. 3/10
- 22.1/10
- 23.1/4
- 24. Varies
- 25. 12 / averaged not picked largest
- 26. 4 / max-min not count
- 27. 4 / most frequent not smallest
- 28.15
- 29. 1/216
- 30.6/100
- 31. Varies

Accept equivalent forms. Reflection varies.