



Grade 7 Data & Probability Unit Test

Name _____ Date _____ Score _____ / 12

Part A • Mean, Median, Mode & Range

01 Median of 11, 15, 18, 14, 7, 15 = _____

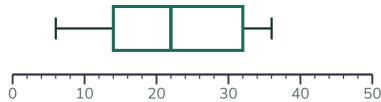
02 Median of 17, 8, 9, 2, 13, 4 = _____

03 Mean of 14, 6, 14, 2 = _____

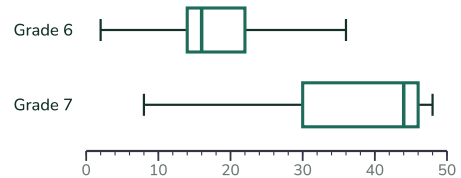
04 Mean of 13, 2, 2, 35 = _____

Part B • Box Plots & Quartiles

Use the data list or the box plot to answer each question.



05 Range = _____



06 Which has the greater median (minutes of reading a day)? _____

07 Daily high temperatures ($^{\circ}\text{C}$): 15, 19, 3, 10, 29, 15, 19, 6, 17, 18, 29. Find the interquartile range (IQR).

Answer: _____



Grade 7 Data & Probability Unit Test

Part B • Box Plots & Quartiles (continued)

08 Books read this term: 25, 8, 13, 15, 16, 19, 7, 20, 21. Give the five-number summary (min, Q1, median, Q3, max).

Answer: _____

Part C • Probability

09 Decimal: A card is drawn from a standard 52-card deck. $P(\text{a king}) =$

Answer: _____

10 Decimal: $P(\text{rolling a number greater than 4 on a die AND rolling an even number on a die}) =$

Answer: _____

11 Percent: In 50 basketball free throws, a player scored 28. What is the experimental probability of scoring?

Answer: _____

12 Decimal: A spinner has 10 equal sections. $P(\text{a multiple of 3}) =$

Answer: _____



Grade 7 Data & Probability Unit Test (Answer Key)

Part A · Mean, Median, Mode & Range

01 Median of 11, 15, 18, 14, 7, 15 = **14.5**

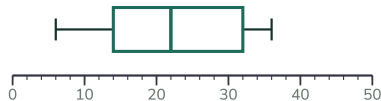
02 Median of 17, 8, 9, 2, 13, 4 = **8.5**

03 Mean of 14, 6, 14, 2 = **9**

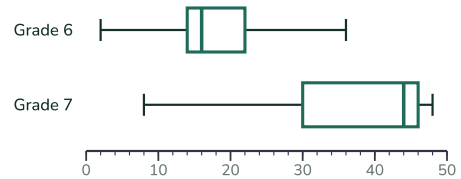
04 Mean of 13, 2, 2, 35 = **13**

Part B · Box Plots & Quartiles

Use the data list or the box plot to answer each question.



05 Range = **30**



06 Which has the greater median (minutes of reading a day)? **Grade 7**

07 Daily high temperatures (°C): 15, 19, 3, 10, 29, 15, 19, 6, 17, 18, 29. Find the interquartile range (IQR).

9



Grade 7 Data & Probability Unit Test (Answer Key)

Part B • Box Plots & Quartiles (continued)

08 Books read this term: 25, 8, 13, 15, 16, 19, 7, 20, 21. Give the five-number summary (min, Q1, median, Q3, max).

7, 10.5, 16, 20.5, 25

Part C • Probability

09 Decimal: A card is drawn from a standard 52-card deck. $P(\text{a king}) =$

≈ 0.08 ($1/13$, $\approx 7.7\%$)

10 Decimal: $P(\text{rolling a number greater than 4 on a die AND rolling an even number on a die}) =$

≈ 0.17 ($1/6$, $\approx 16.7\%$)

11 Percent: In 50 basketball free throws, a player scored 28. What is the experimental probability of scoring?

56.0% ($14/25$, 0.56)

12 Decimal: A spinner has 10 equal sections. $P(\text{a multiple of 3}) =$

0.30 ($3/10$, 30.0%)