



Grade 6 Data & Probability Unit Test

Name _____ Date _____ Score _____ / 12

Part A • Mean, Median, Mode & Range

01 Mean of 12, 17, 10, 9 = _____

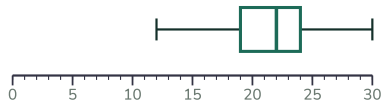
02 Median of 9, 19, 10, 15, 7, 11 = _____

03 Range of 5, 16, 1, 12, 19 = _____

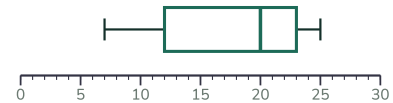
04 Mean of 7, 27, 9, 9 = _____

Part B • Box Plots & Quartiles

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



05 Interquartile range (IQR) = _____



06 Interquartile range (IQR) = _____

07 Daily high temperatures (°C): 28, 24, 28, 29, 30, 22, 29, 21, 21, 24, 20. Give the five-number summary (min, Q1, median, Q3, max).

Answer: _____

08 Daily high temperatures (°C): 17, 9, 10, 23, 16, 12, 15, 19. Find the interquartile range (IQR).

Answer: _____



Grade 6 Data & Probability Unit Test

Part C · Probability

09 Fraction: A bag has 9 red and 7 blue marbles. $P(\text{red}) =$

Answer: _____

10 Percent: A month of the year is chosen at random. $P(\text{a month containing the letter r}) =$

Answer: _____

11 Impossible, unlikely, even chance, likely or certain? Picking a blue marble from a bag of 10 red and 1 blue marble.

Answer: _____

12 Percent: A month of the year is chosen at random. $P(\text{a month with 30 days}) =$

Answer: _____



Grade 6 Data & Probability Unit Test (Answer Key)

Part A · Mean, Median, Mode & Range

01 Mean of 12, 17, 10, 9 = **12**

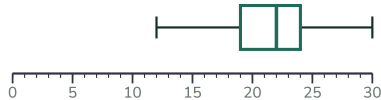
02 Median of 9, 19, 10, 15, 7, 11 = **10.5**

03 Range of 5, 16, 1, 12, 19 = **18**

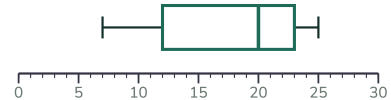
04 Mean of 7, 27, 9, 9 = **13**

Part B · Box Plots & Quartiles

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



05 Interquartile range (IQR) = **5**



06 Interquartile range (IQR) = **11**

07 Daily high temperatures (°C): 28, 24, 28, 29, 30, 22, 29, 21, 21, 24, 20. Give the five-number summary (min, Q1, median, Q3, max).

20, 21, 24, 29, 30

08 Daily high temperatures (°C): 17, 9, 10, 23, 16, 12, 15, 19. Find the interquartile range (IQR).

7



Grade 6 Data & Probability Unit Test (Answer Key)

Part C · Probability

09 Fraction: A bag has 9 red and 7 blue marbles. $P(\text{red}) =$

9/16 (0.56, 56.3%)

10 Percent: A month of the year is chosen at random. $P(\text{a month containing the letter r}) =$

$\approx 66.7\%$ ($2/3$, ≈ 0.67)

11 Impossible, unlikely, even chance, likely or certain? Picking a blue marble from a bag of 10 red and 1 blue marble.

unlikely

12 Percent: A month of the year is chosen at random. $P(\text{a month with 30 days}) =$

$\approx 33.3\%$ ($1/3$, ≈ 0.33)