



Grade 8 Data & Probability Unit Test

Name _____ Date _____ Score _____ / 12

Part A · Mean, Median, Mode & Range

01 Mean of 17, 17, 3, 7, 11 = _____

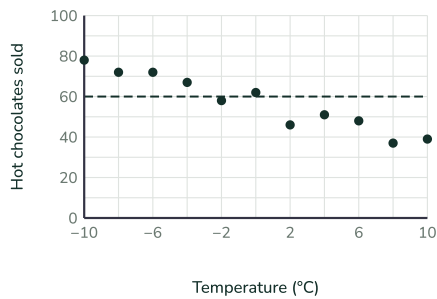
02 Median of 8, 17, 20, 14, 10 = _____

03 Mean of 6, 12, 6 = _____

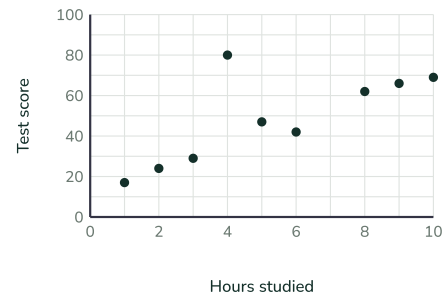
04 Mean of 1, 2, 20, 41 = _____

Part B · Scatter Plots & Best Fit

Use each scatter plot, or the equation given, to answer the question.



05 On how many days were more than 60 hot chocolates sold? _____

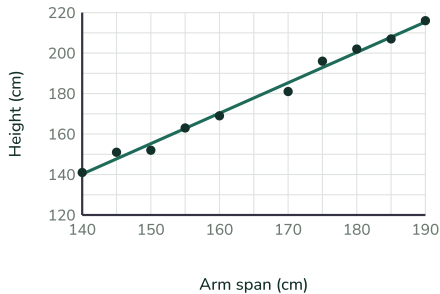


06 Which point is the outlier? Give its coordinates. _____

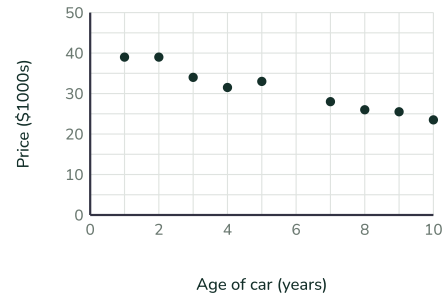


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Part B • Scatter Plots & Best Fit (continued)



- 07** Use the line of best fit to predict the height of someone with a 150 cm arm span.



- 08** Positive, negative or no correlation?

Part C • Probability

- 09** Decimal: Of 80 students surveyed, 44 walk to school. What is the experimental probability of a student walking to school?

Answer: _____

- 10** Decimal: A tin holds 4 chocolate biscuits and 3 plain biscuits. One is taken out and NOT put back. If the first is a chocolate biscuit, what is the probability the second is also chocolate?

Answer: _____

- 11** Percent: A die was rolled 20 times and showed a 6 on 3 rolls. What is the experimental probability of rolling a 6?

Answer: _____



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Part C · Probability (continued)

12 Percent: P(rolling an even number on a die AND spinning blue or green on a 4-colour spinner) =

Answer: _____



Grade 8 Data & Probability Unit Test (Answer Key)

Part A · Mean, Median, Mode & Range

01 Mean of 17, 17, 3, 7, 11 = **11**

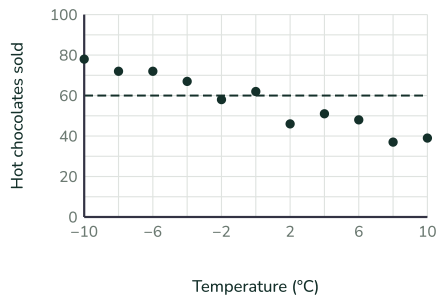
02 Median of 8, 17, 20, 14, 10 = **14**

03 Mean of 6, 12, 6 = **8**

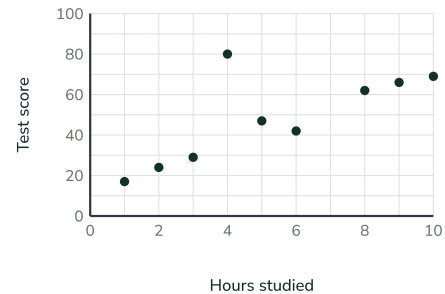
04 Mean of 1, 2, 20, 41 = **16**

Part B · Scatter Plots & Best Fit

Use each scatter plot, or the equation given, to answer the question.



05 On how many days were more than 60 hot chocolates sold? **5**

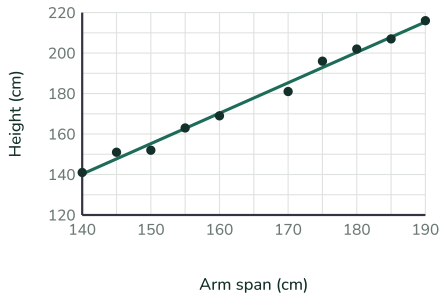


06 Which point is the outlier? Give its coordinates. **(4, 80)**



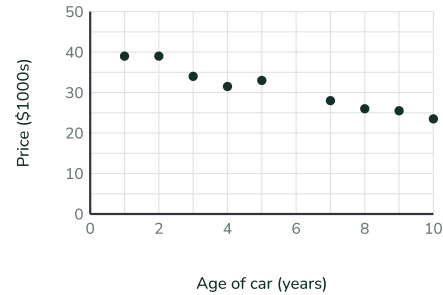
Grade 8 Data & Probability Unit Test (Answer Key)

Part B • Scatter Plots & Best Fit (continued)



- 07 Use the line of best fit to predict the height of someone with a 150 cm arm span.

About 155 cm



- 08 Positive, negative or no **Negative** correlation?

Part C • Probability

- 09 Decimal: Of 80 students surveyed, 44 walk to school. What is the experimental probability of a student walking to school?

0.55 (11/20, 55.0%)

- 10 Decimal: A tin holds 4 chocolate biscuits and 3 plain biscuits. One is taken out and NOT put back. If the first is a chocolate biscuit, what is the probability the second is also chocolate?

0.50 (1/2, 50.0%)

- 11 Percent: A die was rolled 20 times and showed a 6 on 3 rolls. What is the experimental probability of rolling a 6?

15.0% (3/20, 0.15)



Grade 8 Data & Probability Unit Test (Answer Key)

Part C · Probability (continued)

12 Percent: P(rolling an even number on a die AND spinning blue or green on a 4-colour spinner) =

25.0% ($\frac{1}{4}$, 0.25)