

Please write clearly in block capitals.

School _____

Class _____

Name _____

Teacher _____

GCSE STATISTICS

STATISTICS

Statistics · Paper 1 · 2019 original, untiered GCSE practice set

Suggested practice time: 1 hour 30 minutes

Materials

For this paper you must have:

- a pen.
- a calculator (where appropriate).
- no other materials are required.

Instructions

- Answer all questions in the spaces provided.
- Use black ink or black ball-point pen.
- Show your working where calculations are required.
- All questions and materials in this paper are original works written for practice and do not reproduce any real exam content.

Information

- The maximum mark for this paper is 80.
- The marks for questions are shown in brackets.
- You are reminded of the need for good English and clear presentation.

For Examiner's Use	
Question	Mark
1	
2	
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16	
17	
18	
19	
20	
21	
TOTAL	

Original, untiered GCSE Statistics practice paper; this is not an official AQA assessment.
AQA papers are tiered and longer. This practice set has its own time, marks and questions.
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Answer all questions in the spaces provided.

1 Section A

Answer all questions. Show your working.

1.1

Here are nine numbers: 1, 3, 3, 4, 5, 6, 7, 9, 9. Write down one mode.

[2 marks]

2.1

Work out the mean of: 18, 2, 5, 15, 6, 9.

[2 marks]

3.1

Find the range of: 39, 57, 69, 20, 56, 32, 28, 9.

[2 marks]

4.1

Here are seven values: 28, 36, 7, 21, 37, 30, 39. Find the median.

[3 marks]

5.1

In a survey of 300 people, 15% said they cycle to work. How many people is this?

[3 marks]

6.1

A frequency table shows the number of pets owned by 26 families:
 $x=0$ ($f=5$) $x=1$ ($f=6$) $x=2$ ($f=6$) $x=3$ ($f=5$) $x=4$ ($f=4$)
 Calculate the mean number of pets.

[4 marks]

7.1

A bag has 5 red counters and 6 others (11 in total). One counter is taken at random. Write the probability it is red.

[2 marks]

8.1

A bag has 3 green, 3 blue and 3 yellow counters. Find the probability of NOT choosing green.

[3 marks]

9.1

In a pie chart of 44 responses, one category has a frequency of 12. Calculate the angle for this category.

[4 marks]

10.1

A two-way table shows that of 30 males, 16 like sport; of 29 females, 5 like sport.

How many people in total do NOT like sport?

[4 marks]

11.1

A school has 389 pupils in three year groups of 134, 99 and 156. A stratified sample of 60 is taken. How many should come from the first year group?

[5 marks]

12.1

A price rises from 120 (base year) to 126. Calculate the price index for the later year (base = 100).

[4 marks]

13.1

The number of visitors rose from 300 to 320. Calculate the percentage increase.

[4 marks]

14.1

Team A scored: 15, 18, 19, 29, 25. Team B scored: 23, 26, 21, 14, 21. Compare the two teams using the mean and the range.

[6 marks]

15.1

A scatter graph shows hours of revision against test score for a class. The points rise from bottom-left to top-right. Describe the correlation and what it suggests.

[4 marks]

16.1

A grouped frequency table has midpoints and frequencies:
midpoint 5 ($f=4$) midpoint 15 ($f=2$) midpoint 25 ($f=2$) midpoint 35 ($f=3$)
Estimate the mean.

[4 marks]**17.1**

Here are seven ordered values: 5, 9, 21, 21, 23, 24, 28. Find the interquartile range.

[4 marks]**18.1**

Quarterly sales were: 33, 37, 27, 49, 24.
Calculate all three 3-point moving averages to 1 decimal place.
State whether the moving average rises or falls overall.

[5 marks]**19.1**

The probability of rain on any day is $\frac{2}{5}$. Assuming days are independent, find the probability of rain on both days and no rain on either day.

[5 marks]

20.1

A survey of 28 people recorded their favourite season with frequencies 7, 3, 10, 8 (spring, summer, autumn, winter).

Find $P(\text{summer})$ and $P(\text{not summer})$. How much more likely is not summer?

[4 marks]

21.1

Team A scored: 18, 24, 27, 17, 19. Team B scored: 15, 16, 18, 11, 22.

Compare the two teams using the mean and the range.

[6 marks]

END OF QUESTIONS