

Name _____

Date _____

Stage 7 End-of-unit test 16

22 questions · 50 marks · calculators are not allowed · allow about 45 minutes

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- 1 Find the mode of 6, 9, 4, 9, 12, 9, 7. [2]

 - 2 Find the median of 6, 9, 4, 9, 12, 9, 7. [2]

 - 3 Find the range of 6, 9, 4, 9, 12, 9, 7. [2]

 - 4 Find the mean of 6, 9, 4, 9, 12, 9, 7. [3]

 - 5 Find the median of 4, 10, 6, 14, 8, 12. [3]

 - 6 Six numbers have a mean of 14. What is their total? [2]

 - 7 Five numbers have a mean of 20. Four of them are 15, 18, 22 and 25. What is the fifth? [4]

 - 8 Which average is most appropriate for the favourite colour of a class? [2]
☐ mode
☐ median
☐ mean
☐ none of them
 - 9 Which average is most appropriate for house prices on a street where one house is far more expensive than the rest? [2]
☐ mode
☐ median
☐ mean
☐ none of them
 - 10 Which average is affected most by an outlier? [2]
☐ mode
☐ median
☐ mean
☐ they are all affected equally
 - 11 The set 5, 6, 7, 6, 50 contains an outlier. What is the mean with it removed? [3]

- 12** What does the range tell you? [1]
- ☐ The typical value
 - ☐ How spread out the data is
 - ☐ The most common value
 - ☐ The total
- 13** A pie chart shows 24 people. How many degrees does one person represent? [2]
-
-
- 14** In that pie chart, one sector is 105° . How many people does it represent? [3]
-
-
- 15** A category is 30% of a pie chart. What is its angle, in degrees? [3]
-
-
- 16** A bar chart shows 14, 9, 17 and 20. What is the total? [2]
-
-
- 17** Why should a bar chart's vertical scale start at zero? [2]
- ☐ It looks better
 - ☐ Otherwise small differences look far bigger than they are
 - ☐ The bars would not fit
 - ☐ It need not
- 18** Which chart is best for showing change over time? [1]
- ☐ pie chart
 - ☐ bar chart
 - ☐ line graph
 - ☐ tally chart
- 19** Class A scores have range 3 and class B have range 14. Which class is more consistent? Answer 1 for A and 2 for B. [2]
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- 20** To compare two data sets properly you should quote ... [2]
- ☐ an average only
 - ☐ a range only
 - ☐ an average and a range
 - ☐ the totals
- 21** A survey asks only people leaving a sports centre how much they exercise. The problem is that the sample is ... [2]
- ☐ too large
 - ☐ biased
 - ☐ too old
 - ☐ fine
- 22** Sales rose for six months and fell in the seventh. What should you conclude? [3]
- ☐ The trend has ended
 - ☐ One month is not enough to say the trend has changed
 - ☐ Sales will keep falling
 - ☐ The data is wrong

END OF TEST