Year 8 Statistics – Foundation

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Year 8 · Maths · Statistics · Level 1 Foundation · 10 questions

Name _____ **Date** _____

A. Data skills

1. The stem-and-leaf diagram shows the masses, in kg, of some dogs (key: 2 | 3 means 23). 2 | 2 2; 3 | 2 5; 4 | 2 5 6 7 7 7; 5 | 2 4 6. Find the median and the range.

Answer _____

2. The stem-and-leaf diagram shows the times, in seconds, for a puzzle (key: 2 | 3 means 23). 1 | 3; 2 | 8; 3 | 1 2 4 6 6 9; 4 | 1; 5 | 1 4 8. Find the range and the mode.

Answer _____

3. The stem-and-leaf diagram shows the times, in seconds, for a puzzle (key: 2 | 3 means 23). 1 | 5; 2 | 2 4 6; 3 | 2 3 3 8 9; 4 | 0 1 6 8; 5 | 0 6. Find the median and the range.

Answer _____

4. In a survey of 120 students, 34 chose football. What angle should football have in a pie chart?

Answer _____

5. A pie chart shows how 36 people travel to work. The sector for 'bus' has an angle of 70°. How many people travel by bus?

Answer _____

6. In a survey of 60 students, 6 chose football. What angle should football have in a pie chart?

Answer _____

7. A frequency table shows the number of books read by 25 students (books: frequency). 1: 7; 2: 5; 3: 1; 4: 10; 5: 2. Find the mean, the median and the mode.

Answer _____

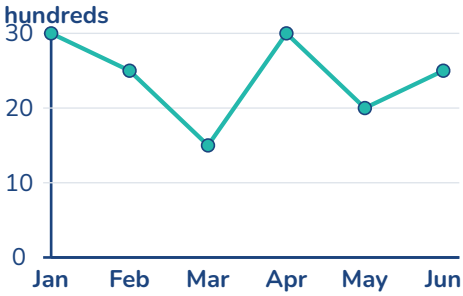
8. A frequency table shows the number of books read by 20 students (books: frequency). 1: 12; 2: 2; 3: 1; 4: 2; 5: 3. Find the mean, the median and the mode.

Answer _____

9. A frequency table shows the number of books read by 40 students (books: frequency). 2: 2; 3: 8; 4: 11; 5: 9; 6: 10. Find the mean, the median and the mode.

Answer _____

10. The time series graph shows a shop's ice-cream sales, in hundreds, over six months. Between which two months did sales rise the most? Describe the overall trend.



Answer _____