Year 8 Statistics – Developing

HappyKids.fit

Year 8 · Maths · Statistics · Level 2 Developing · 10 questions

Name _____ **Date** _____

A. Use statistics

1. Test scores for team A: 64, 90, 41, 58, 47, 84. Team B: 56, 49, 87, 84, 86, 46. Compare the two teams using the mean and the range.

Answer _____

2. A school council wants to find out students' views by asking whoever is nearest, such as your friends (convenience sampling). Give one advantage and one disadvantage of this method.

Answer _____

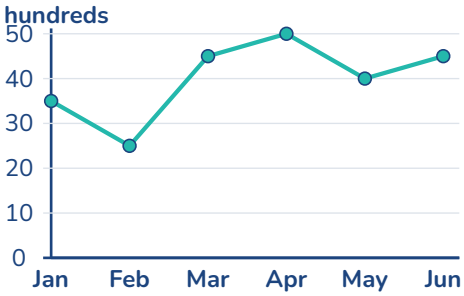
3. Which chart or diagram would you choose to show the proportion of a school's budget spent on each area? Explain why.

Answer _____

4. Which chart or diagram would you choose to show whether people who sleep longer score higher in a memory test? Explain why.

Answer _____

5. 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 _____

6. Pairs of values (hours of sunshine, visitors (tens)) are (1, 86), (2, 87), (5, 73), (6, 63), (7, 60), (9, 51). Plot them on a scatter graph (or picture them). What type of correlation is there? Explain.

Answer _____

7. Pairs of values (hours of sunshine, visitors (tens)) are (1, 41), (2, 49), (3, 58), (8, 84), (9, 88), (10, 91). Plot them on a scatter graph (or picture them). What type of correlation is there? Explain.

Answer _____

8. The stem-and-leaf diagram shows the masses, in kg, of some dogs (key: 2 | 3 means 23). 1 | 2 3 4; 2 | 2 7; 3 | 3 3 5 7 8; 4 | (none); 5 | 1 4 6. Find the median and the range.

Answer _____

9. A pie chart shows how 20 people travel to work. The sector for 'bus' has an angle of 54°. How many people travel by bus?

Answer _____

10. In a survey of 72 students, 28 chose football. What angle should football have in a pie chart?

Answer _____