Year 9 Statistics – Foundation

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Year 9 · Maths · Statistics · Level 1 Foundation · 10 questions

Name _____ **Date** _____

A. Data skills

1. Data is collected on the colour of each car in a car park. Is the data qualitative or quantitative? Is it categorical, discrete or continuous?

Answer _____

2. Data is collected on the make of each phone owned by a group of friends. Is the data qualitative or quantitative? Is it categorical, discrete or continuous?

Answer _____

3. Data is collected on the number of goals scored in each match. Is the data qualitative or quantitative? Is it categorical, discrete or continuous?

Answer _____

4. The table shows the times that 40 students spent on homework last night. Write down the modal class and estimate the mean.

Time, t (minutes)	Frequency
$0 < t \leq 10$	13
$10 < t \leq 20$	8
$20 < t \leq 30$	8
$30 < t \leq 40$	11

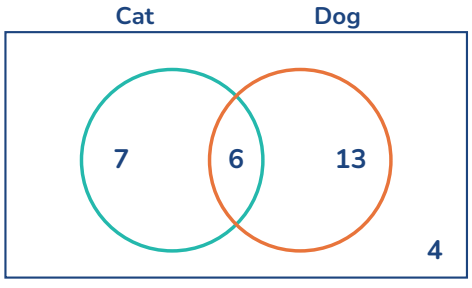
Answer _____

5. The table shows the ages of 40 people at a swimming pool. Write down the class that contains the median and estimate the mean.

Age, a (years)	Frequency
$0 < a \leq 20$	11
$20 < a \leq 40$	10
$40 < a \leq 60$	6
$60 < a \leq 80$	13

Answer _____

6. The Venn diagram shows which students in a group own a cat and which own a dog. How many students are in the group? How many own exactly one of the two?



Answer _____

7. The two-way table shows what 104 students chose for lunch. Some values are missing. How many girls chose soup?

	Pasta	Salad	Soup	Total
Boys	16	24	?	58
Girls	6	?	?	?
Total	22	47	35	104

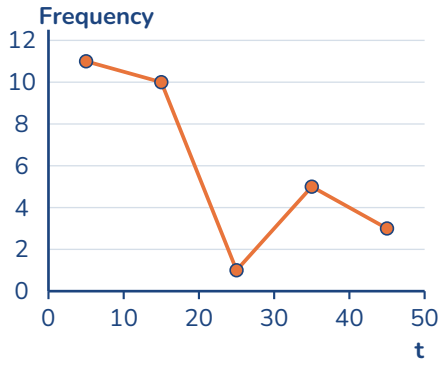
Answer _____

8. The two-way table shows what 106 visitors bought to drink at a café. Some values are missing. How many children bought coffee?

	Tea	Coffee	Juice	Total
Adults	20	?	13	56
Children	24	?	?	?
Total	44	34	28	106

Answer _____

9. The frequency polygon shows the times, t minutes, that some students spent reading in a week, grouped in classes $0 < t \leq 10$, $10 < t \leq 20$ and so on. Each point is plotted at a class midpoint. Write down the modal class. Estimate the mean.



Answer _____

10. Which representation would you choose to show the heights of 200 plants grown with two different feeds, grouped into classes? Explain why.

Answer _____