

Name _____

Date _____

VERTEXMATH · BUILD YOUR OWN · MTH1W GRADE 9

Data Management: your summary

1 Fill in every blank from memory. No notes.

2 Check it against the Unit Summary in a different colour.

3 Tick ✓ or X on each card. Every X is a topic to review.

vertexmath.ca
Worksheet, answers &
this cheat sheet



Which average?

Write the tool for each case.

Heights of 30
classmates

House prices on
one street

Favourite pizza
topping

1 Types of data ☒ ☐

1 Categorical, discrete or continuous: favourite sport, number of pets, mass of a backpack?

2 Graphs ☒ ☐

2 27 of 60 students chose hockey. Find the sector angle.

3 Find the sector angle for 65% of a circle graph.

3 Mean, median, mode ☒ ☐

4 Find the mean, median, mode and range of 12, 7, 9, 7, 15, 10.

5 Shoe sizes 6, 7, 8 have frequencies 4, 9, 7. Find the mean and the mode.

4 Using the mean ☒ ☐

6 The mean of 5 quiz marks is 14. A sixth mark makes the mean 15. Find the sixth mark.

5 Quartiles and IQR ☒ ☐

7 Find the five-number summary, the IQR and any outliers:
2, 5, 6, 8, 11, 13, 14, 19, 22, 25, 48.

8 Find Q_1 of 3, 4, 7, 9, 12, 20.

6 Box plots ☒ ☐

9 Team A: median 52, IQR 6. Team B: median 48, IQR 15. Compare the teams.

7 Correlation ☒ ☐

10 What does the strength of a correlation describe?

8 Line of best fit ☒ ☐

11 Find the equation of the line of best fit through (3, 40) and (9, 58).

9 Predictions ☒ ☐

12 A model uses data for $x = 6$ to $x = 30$. Interpolation or extrapolation: $x = 17$? $x = 2$?

13 Your steps for a full data modelling task, from question to conclusion. (no single answer)

My traps Your three most likely mistakes, and how you will catch each one.

1 _____ 2 _____ 3 _____

Answers to the numbered prompts. Cover this strip until you are done.
1 Categorical; discrete; continuous
2 162°
3 234°
4 10, 9.5, 7, 8
5 7.15; 7
6 $90 - 70 = 20$
7 2, 6, 13, 22, 48; IQR = 16; 48 is an outlier
8 4 (the lower half is 3, 4, 7)
9 A: higher and more consistent
10 Closeness to a line, not steepness
11 $y = 3x + 31$
12 Interpolation; extrapolation