

Stage 6 Cambridge Primary Mathematics Practice Worksheet

Friday 21 August 2026

Syllabus Focus: Objective 6Ss.03 — Mode, Bimodal Data, Median, Mean, Range, & Contextual Appropriateness

Time Allowed: 30 Minutes | **Total Marks:** 20 Marks

Section A: Finding Basic Summary Statistics

Question 1 [2 Marks]

Here is a list of test scores (out of 10) for 7 learners:

5, 7, 8, 8, 9, 9, 10

(a) Find the **median** score. [1]

Answer: _____

(b) Calculate the **range** of the scores. [1]

Answer: _____

Question 2 [2 Marks]

Calculate the **mean** for the following set of temperatures (°C) recorded over 5 days:

18, 22, 15, 25, 20

Answer: _____ °C [2]

Section B: Bimodal Data & Contextual Interpretation

Question 3 [2 Marks]

A shoe shop recorded the shoe sizes of 15 customers who entered the shop on Saturday morning:

35, 36, 37, 37, 37, 37, 39, 40, 42, 43, 43, 43, 43, 45, 46

(a) State the two modes for this **bimodal** data set. [1]

Answer: Mode 1: _____ | Mode 2: _____

(b) Suggest a practical real-world reason why this shoe size data is bimodal. [1]

Answer: _____

Question 4 [2 Marks]

A clothing manufacturer records the heights of a group of primary school children and adult teachers.

(a) Why would calculating the **mode** be more useful than the mean when deciding which size clothing options to stock? [1]

Answer: _____

(b) If the height data shows two distinct peaks (bimodal), what does this tell the shop owner about the customer groups? [1]

Answer: _____

Section C: Choosing the Most Appropriate Measure

Question 5 (Contextual Appropriateness) [2 Marks]

A small business employs 5 workers and 1 owner. Their weekly salaries are:

\$150, \$150, \$160, \$170, \$180, \$2,100

(a) Calculate the **mean** weekly salary. [1]

Answer: \$_____

(b) Explain why the **median** (\$165) is a more appropriate summary statistic than the mean for describing a typical worker's pay. [1]

Answer: _____

Question 6 [2 Marks]

Two archery athletes, **Amina** and **Tariro**, recorded their scores over 5 rounds:

- **Amina's scores:** 8,8,9,9,10 (Mean = 8.8, Range = 2)
- **Tariro's scores:** 4,6,9,10,15 (Mean = 8.8, Range = 11)

(a) Both athletes have the same mean score. Which athlete performed more **consistently**? [1]

Answer: _____

(b) Use the **range** to justify your answer in part (a). [1]

Answer: _____

Section D: Reverse Calculations & Problem Solving

Question 7 [2 Marks]

The mean mass of 4 parcels is 5 kg. Three of the parcels have masses of 3 kg, 4 kg, and 6 kg.

Find the mass of the **fourth parcel**.

Answer: _____ kg [2]

Question 8 [2 Marks]

A dataset of 6 numbers is arranged in order from smallest to largest:

3, 5, x , y , 12, 15

The **median** of this data set is 8.

(a) What is the value of $(x + y)$? [1]

Answer: _____

(b) If $x = 7$, find the value of y . [1]

Answer: _____

Question 9 [2 Marks]

State whether a data set can have:

(a) **No mode** (True or False? Give an example if True). [1]

Answer: _____

(b) More than two modes (True or False?). [1]

Answer: _____

Question 10 (TWM.04 Convincing) [2 Marks]

Sam measured the heights (cm) of 5 garden plants:

12 cm, 14 cm, 15 cm, 15 cm, 24 cm

Sam claims: "The range of my plants is 15 cm, which means 15 cm is the average height."

Convince Sam why his statement is mathematically incorrect, making sure to distinguish

between **range** and **measures of central tendency** (mean, median, mode). [2]