Mathematics · Grade 7

Memorandum · Term 1–4

TOTAL
51
MARKS

Marking guidelines

1. Award method marks even where the final answer is wrong.
2. Accept any correct method, including one that differs from the memorandum.
3. An answer without the unit loses the unit mark, not the whole question.
4. Where a question asks for two or more items, award one mark per correct item.
5. Do not deduct marks for handwriting, provided the answer can be read.

Question	Answer	Marks	Marking note
QUESTION 1 · Multiple choice · 3 marks			
1.1	a. $\frac{1}{4}$	**1**	
1.2	b. Graph B	**1**	*A shortened axis stretches the differences.*
1.3	c. $\frac{1}{2}$	**1**	
QUESTION 2 · Matching · 4 marks			
2.1	1 = C (mode); 2 = A (median); 3 = E (mean); 4 = B (range)	**4**	*1 mark each.*
QUESTION 3 · Stem-and-leaf display · 6 marks			
3.1	a. 15 b. 32 and 68 c. 68 − 32 = 36 d. 47 (the 8th mark) e. 44 f. 7	**6**	*1 mark each.*
QUESTION 4 · Data handling · 5 marks			
4.1	a. 8 + 12 + 6 + 14 + 9 = 49 books b. 49 − 37 = 12 more books c. Thursday (11 and 14) d. Ordered: 6; 8; 9; 12; 14 → median = 9; higher (week 1: 7) e. True (Mon 8 > 6; Tue 12 > 9; Wed 6 > 4; Thu 14 > 11; Fri 9 > 7)	**5**	*1 mark each.*
QUESTION 5 · Probability · 7 marks			
5.1	a. 26/52 = 1/2 b. 13/52 = 1/4 c. 4/52 = 1/13	**3**	*1 mark each.*

Question	Answer	Marks	Marking note
5.2	Impossible: the chance is 0 — for example throwing a 7 on an ordinary die. Certain: the chance is 1 — for example that the sun will rise tomorrow.	**2**	*1 mark each.*
5.3	a. 1, 2, 3, 4, 5 b. 2/5 (the even numbers are 2 and 4)	**2**	*1 mark each.*
QUESTION 6 · Central tendency and range · 7 marks			
6.1	10 ; 14 ; 14 ; 17 ; 18 ; 20 ; 23 ; 25 ; 28 ; 31	**1**	
6.2	14	**1**	
6.3	There are 10 marks, so the median is halfway between the 5th and 6th: (18 + 20) ÷ 2 = 19	**2**	*1 mark for the two middle values, 1 for the answer.*
6.4	Total = 200; 200 ÷ 10 = 20	**2**	*1 mark for the total, 1 for the division.*
6.5	31 − 10 = 21	**1**	
QUESTION 7 · Sample, population and a frequency table · 8 marks			
7.1	The population is the whole group you want to know something about (for example all the learners in the school). A sample is a smaller part of that group that you actually ask.	**2**	*1 mark per idea.*
7.2	Any sensible yes/no question, e.g. "Do you play a sport at school? Yes / No"; any multiple-choice question with at least three options, e.g. "Which sport do you like best? soccer / netball / cricket / other"	**2**	*1 mark each.*
7.3	a. 2, 4, 3, 3, 2, 1 (for 2, 3, 4, 5, 6, 7) b. 3 c. 62 apples	**4**	*2 marks for the table, 1 for the mode, 1 for the total.*
QUESTION 8 · Histograms, intervals and pie charts · 11 marks			
8.1	21–30: 1; 31–40: 5; 41–50: 9; 51–60: 5	**4**	*1 mark per interval.*
8.2	A histogram shows GROUPED data in intervals, and the bars touch because the intervals run into each other. A bar graph shows separate categories with gaps between the bars.	**3**	*1 mark for grouped data, 1 for the touching bars, 1 for the comparison.*
8.3	a. Soccer b. 50% of 120 = 60 c. 25% of 120 = 30 d. 15% of 120 = 18	**4**	*1 mark each.*

Total **51 marks**



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