GRADE 7 MATHEMATICS — 2026

MARKING SCHEME & TEACHER'S GUIDE

TOTAL: 50 MARKS

PAPER STRUCTURE

Section	Questions	Marks
A	1–20	20
B	21–31	30
TOTAL		50

SECTION A — ANSWER KEY

Question	Answer	Question	Answer	Question	Answer	Question	Answer	Question	Answer
1	A	2	C	3	C	4	B	5	B
6	A	7	B	8	B	9	B	10	C
11	B	12	A	13	C	14	B	15	C
16	C	17	A	18	C	19	B	20	C

SECTION A — PEDAGOGICAL JUSTIFICATIONS

1. A — 8,246,035 matches eight million, two hundred forty-six thousand and thirty-five.
2. C — 5,738,214 rounds to 6,000,000 because the hundred-thousands digit is 7.
3. C — Each term is divided by 2; 128 ÷ 2 = 64.
4. B — 63,475 has digit sum 25; adding 2 gives 63,477, whose digit sum is 27 and is divisible by 9.
5. B — LCM(12, 18, 30) = 180 seconds = 3 minutes.
6. A — Area = 20 1/4 = 20.25 m²; side = √20.25 = 4.5 m; perimeter = 4 × 4.5 = 18 m.
7. B — 3x/5 + 4 = 16; 3x/5 = 12; x = 20.
8. B — 1,305,000 ÷ 2,900 = 450 bags; 450 × 75 = 33,750 kg.
9. B — Square side = 96 ÷ 4 = 24 m; area = 24² = 576 m².
10. C — Let Asha = x; Mary = x + 4. Then 2x + 4 = 18, so x = 7 and Mary = 11.
11. B — 'At most 320' means the number can be 320 or less: x ≤ 320.
12. A — V = πr²h = 3.142 × 16 × 6 = 301.632 cm³ ≈ 301.6 cm³.
13. C — Height = √(13² − 5²) = √144 = 12 m.
14. B — Area = 18 × 11 = 198 m².
15. C — Area of parallelogram = base × perpendicular height = 15 × 8 = 120 cm².
16. C — Volume = 4³ = 64 m³ = 64,000 litres.
17. A — Celsius = Kelvin − 273 = 315 − 273 = 42°C.
18. C — Cost = 12 × 150 = 1,800; revenue = 12 × 180 = 2,160; profit = 360.
19. B — The clock shows 1:30 p.m.; adding 2½ hours gives 4:00 p.m.
20. C — 72 km/h ÷ 3.6 = 20 m/s.

SECTION B — DETAILED MARKING SCHEME

Item	Marks	Expected answer / working	Allocation
21(a)	1 mark	Ksh. six hundred and twenty-five million, eight hundred and four thousand, one hundred and twenty.	1 mark for the correct wording.
21(b)	1 mark	Ksh. 626,000,000.	1 mark for correct rounding.
21(c)	1 mark	The digit 8 is in the hundred-thousands place: 800,000.	1 mark.
22	3 marks	Area = πr²; 554.176 = 3.142r²; r² = 176; r = √176; diameter = 2√176 ≈ 26.53 cm.	1 mark for formula/substitution; 1 mark for radius; 1 mark for diameter.
23	2 marks	Let the number be x. 4(x + 8) = 52; x + 8 = 13; x = 5.	1 mark for correct equation; 1 mark for x = 5.
24	2 marks	16 < x ≤ 24°C.	1 mark for lower inequality; 1 mark for upper inequality and