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SUMMATIVE ASSESSMENT – TERM II, 2026–27

MATHEMATICS – ANSWER KEY (English Medium)

SET 1

Standard: VIII **Time: 1½ Hours**

Total Score: 40

Award scores for correct steps. Accept any correct alternative method.

Q. No.	Answer / Scoring indicators	Score
1	C) 6 (3x + 7 = 25 → x = 6)	1
2	A) 5 − 8	1
3	A) 15	1
4	D) Both true; Statement II is not the reason for Statement I	1
5	i) 90 rupees (1) ii) (170 − 90) ÷ 4 = 20 rupees (1)	2
6	Construct 60° and 90°, then bisect the angle between them (or bisect 30° to add 15°) (2)	2
7	9/40 = 225/1000 = 0.225 (2)	2
8	11 × 4 = 44; 4 wrong answers → 44 − 4 = 40 marks (2)	2
9	i) 1 + 2 + 3 = 6 parts; one part = 4 cm; AP = 4 cm (1) ii) PQ = 8 cm (1) iii) QB = 3 parts = 18 cm → one part 6 cm → AB = 36 cm (1)	3
10 A	i) 8 cm; the perpendicular from the centre bisects the chord (1) ii) $OM^2 = 10^2 - 8^2 = 36$ → OM = 6 cm (2)	3
10 B	Join OA and OB; OA = OB (radii), OM is common, ∠OMA = ∠OMB = 90° (1); triangles OMA and OMB are congruent (1); so AM = BM (1)	3
11	Correct construction with diagonals bisecting at right angles (2); side = 5 cm (1)	3
12 A	i) (180 − 40) ÷ 2 = 70° (1) ii) 70° (1) iii) 90°; triangles ABD and ACD are congruent (SSS), so ∠ADB = ∠ADC and their sum is 180° (1)	3
12 B	i) AB = AD, CB = CD, AC common → congruent (SSS) (2) ii) So ∠BAC = ∠DAC; AC bisects ∠A (1)	3
13	Correct triangle (2); perpendicular bisectors of two sides and circumcircle (2)	4
14 A	i) x + 4, x + 30 (1) ii) x + 30 = 3(x + 4) (1) iii) 2x = 18 → x = 9; daughter 9 years, mother 35 years (2)	4
14 B	i) 25 cm (1) ii) b + 5 + b = 25 → b = 10 cm, length = 15 cm (3)	4
15 A	i) Milk 40 × 5/8 = 25 L, water 15 L (2) ii) For 5 : 4, water = 20 L; add 5 L of water (2)	4
15 B	i) 3 × 50 000 = 150 000 cm = 1.5 km (2) ii) 6 km = 600 000 cm → 600 000 ÷ 50 000 = 12 cm (2)	4
16	i) −4 + 6 = 2 °C (1) ii) −4 + 3h = 11 → h = 5 hours (1) iii) −4 + 3h (1) iv) −4 + 3 = −1 °C; below 0 °C (1)	4

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