Model Question Paper prepared by www.educationobserver.com

SUMMATIVE ASSESSMENT – TERM II, 2026–27

MATHEMATICS – ANSWER KEY (English Medium)

SET 2

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) 11 (2x − 5 = 17 → x = 11)	1
2	C) −3 + 7	1
3	A) 200	1
4	D) Both true; Statement II is not the reason for Statement I	1
5	i) 700 rupees (1) ii) (1900 − 700) ÷ 3 = 400 rupees (1)	2
6	Construct 90°, bisect to get 45°, and bisect again to get 22½° (2)	2
7	11/8 = 1 + 3/8 = 1.375 (2)	2
8	500 + (−800) + 200 = −100 (1); a loss of 100 rupees (1)	2
9	2 + 3 + 4 = 9 parts; one part = 5 m (1); pieces 10 m, 15 m, 20 m (2)	3
10 A	i) $PM^2 = 13^2 - 5^2 = 144 \rightarrow PM = 12$ cm (2) ii) PQ = 2 × 12 = 24 cm (1)	3
10 B	Join OP and OQ; OP = OQ, PM = QM, OM common → triangles OMP and OMQ congruent (2); ∠OMP = ∠OMQ and they form a linear pair, so each is 90° (1)	3
11	Correct construction (2); shorter diagonal = 5 cm (1)	3
12 A	i) 65° (1) ii) 180 − 130 = 50° (1) iii) 90°; triangles PSQ and PSR are congruent, so the two equal angles at S make 180° (1)	3
12 B	i) Yes; two sides and the included angle are equal (2) ii) ∠D (1)	3
13	Correct triangle (1); perpendicular bisectors and circumcircle (2); radius ≈ 3 cm (1)	4
14 A	i) x + 5, 4x + 5 (1) ii) 4x + 5 = 3(x + 5) (1) iii) x = 10; son 10 years, father 40 years (2)	4
14 B	i) 32 cm (1) ii) (2b − 4) + b = 32 → 3b = 36 → b = 12 cm, l = 20 cm (3)	4
15 A	i) Cement 50 × 1/5 = 10 bags, sand 40 bags (2) ii) For 1 : 5, sand = 50 bags; 10 more bags needed (2)	4
15 B	i) 10 × 40 = 400 cm = 4 m (2) ii) 160 cm ÷ 40 = 4 cm (2)	4
16	i) −12 + 6 = −6 m (1) ii) −12 + 3t = 0 → t = 4 minutes (1) iii) −12 + 3t (1) iv) −9 m; below the surface (1)	4

www.educationobserver.com