SUMMATIVE ASSESSMENT – TERM I 2025 – 26

MATHEMATICS – ANSWER KEY E-803 Class: VIII On no Score Key **SECTION A** $(10 + 3)^2 = 10^2 + 10 \times 3 \times 2 + 2^2$ A. $10 \times 3 \times 2$ 1 2 1 A. Statement I is true, Statement II is false. 3 $(12.3)^2 = \left(\frac{123}{10}\right)^2 = \frac{15129}{100}$ 1 D. 151.29 D. i, iv 1 4 **SECTION B** (i) $\angle ADC = 180 - 25 - 55 = 180 - 80 = 100^{\circ}$ 1 5 [Sum of the angles of the triangle ADC] (ii) $\angle ABC = 100^{\circ}$ [$\angle ABC = 100^{\circ}$, Opposite angles of a 1 parallelogram are equal] (i) $\left[2\frac{1}{2}\right]^2 = \left[2 + \frac{1}{2}\right]^2 = 2^2 + 2 \times 2 \times \frac{1}{2} + \left(\frac{1}{2}\right)^2 = 2^2 + 2 + \left(\frac{1}{2}\right)^2 = 2^2 + 2 + \frac{1}{4}$ 6 (ii) $\left[7\frac{1}{2}\right]^2 = \left[7 + \frac{1}{2}\right]^2 = 7^2 + 2 \times 7 \times \frac{1}{2} + \left(\frac{1}{2}\right)^2 = 7^2 + 7 + \frac{1}{4} = 56 + \frac{1}{4}$ 1 7 1 Yes. $3600^{\circ} = 20 \times 180^{\circ}$. Sum of the angles of any polygon is a multiple of 180° . [The sum 1 of the angles of a polygon is 180° multiplied by two less than the number of sides] 8 Sum of the measures of two small angles = $180 - 90 = 90^{\circ}$ 1 Each small angle $=\frac{90}{2}=45^{\circ}$ [If two sides of a triangle are equal, then their opposite 1 angles are also equal]

SECTION C		
9	(i) Larger side of the rectangle $= x + 1$	1
	Smaller side of the rectangle $= x - 1$	
	(ii) Area of the shaded rectangle	1
	$= (x+1)(x-1) = x^2 - 1^2 = x^2 - 1$	
	(iii) Square has more area .	1
	[Area of the rectangle = x^2] $\xrightarrow{1} x + 1 \xrightarrow{x}$	
10	(i) Measure of one outer angle = $180 - 135 = 45^{\circ}$	1
	(ii) Sum of the outer angles = 360°	1
	Number of sides $=\frac{360}{45}=8$	1





