



**COMMON PRE-BOARD EXAMINATION
MATHEMATICS (STANDARD)–Code No. 041**



CLASS-X-(2025-26)

SET: 2

ANSWER KEY

I	MCQ	
1	25°	1
2	$\operatorname{cosec} \theta \sec \theta$	1
3	0 units	1
4	81.5 cm	1
5	Coincident	1
6	$mp = nq$	1
7	Sum = 6, Product = 6	1
8	$\frac{5}{6}$	1
9	3	1
10	24.5	1
11	416 cm^3	1
12	$\frac{1}{m}$	1
13	90°	1
14	2, 3	1
15	$m = 2, n = -1$	1
16	72°	1
17	$-\frac{5}{6}$	1
18	5.8 cm	1
19	Assertion false, Reason true	1
20	Assertion false, Reason true	1
II		
21	$\theta = 45^\circ$	2
22	$686\pi \text{ cm}^2$	2
23	13th term = 0	2
24	$AO/OC = BO/OD$	2
25	It is a rhombus	2
III		

26	16 cm	3
27	$x^2 - 24x + 128 = 0$	3
28	36	3
29	Identity verified (0)	3
30	$\sqrt{3}$ is irrational / 17 rooms	3
31	(i) $1/8$ (ii) $1/2$	3
IV		
32	Volume = 25.12 cm^3 , Surface area = 42.88 cm^2	5
33	36 camel	5
34	Mean = 55.2 kg, Mode = 53.5 kg	5
35	$1/x + 1/z = 1/y$	5
V		
36	7th jump = 7 in., Total (7 jumps) = 59.5 in., Total (20 jumps) = 105 in., 15th jump = 3 in.	4
37	PQ = 36.6 m, Speed = 0.3 km/h	4
38	AB = $6\sqrt{5}$, E(7, 0), AD = $8\sqrt{2}$	4