KENDRIYA VIDYALAYA SANGATHAN,
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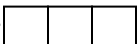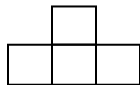## SCORING KEY FOR COMMON SUMMATIVE ASSESSMENT – II

Class: VII   Sub: Mathematics

Q. No	Steps/Answers	Marks
1	(a)	1
2	(c)	1
3	(b)	1
4	(c)	1
5	(b)	1
6	(a)	1
7	(d)	1
8	(c)	1
9	Prime factorisation Writing $1000 = 2^3 \times 5^3$	1 1
10	40% of x = 500km. x = $\frac{500 \times 100}{40}$ x = 1250 km.	½ 1 ½
11	For writing $\frac{-1}{8}$ X $\frac{4}{3}$ Simplifying as $\frac{-1}{6}$	1 1
12	For drawing each figure with lines of symmetry -1mark	1 x 2 = 2
13	For writing the formula and correct substitution For finding the answer as : $\frac{5000 \times 3 \times 10}{100}$ = 1500 [**or**] For writing the formula and correct substitution For finding the answer as : $\frac{35}{350}$ x 100 = 10%	1 1 1 1
14	For neat drawing	2
15	For writing PQ = PR and <QPS = <RPS For writing PS = PS (common) (ii) Yes, Δ PSQ ≅ Δ PSR	1 1 1

Q. No	Steps/Answers	Marks
16	For writing formula 2 (l + b) = Perimeter	½
	For correct substitution 2 (35 + b) = 100	
	& finding 'b' value as b = 50 – 35 = 15 cm.	1
	For writing formula Area = (l x b)	½
	For correct substitution & and finding area as	1
	Area= 35 x 15 =525 cm^2	
17	For finding LCM as 7 x 4 = 28	1
	For finding the equivalent rational numbers as	
	$\dfrac{-12}{28}$, $\dfrac{-42}{28}$, $\dfrac{-21}{28}$	1
	$\dfrac{-42}{28} < \dfrac{-21}{28} < \dfrac{-12}{28}$	1
18	For writing the formula and correct substitution	1
	in π d or 2 π r	
	For finding the circumference as = 66 cm	1
	For finding the cost of fencing as 66 x 4 = Rs. 264	1
	[**or**]	
	For writing the formula & substituting as	
	2 (l + b) = 2 x (120 + 80)	1
	For finding the perimeter as 400 m.	1
	For finding the distance as 400 x 3 = 1200 m.	1
19	For simplification as $2a^2$ + ab	1
	Correct substitution	1
	Finding Value as $2(5^2)$ + 5x 2 = 60	1
20	$\dfrac{3^5 \ x \ (2\ x\ 5)^5 \ x\ 5^2}{5^7 \ x \ (2\ x\ 3 \ )^5}$	1
	$\dfrac{\cancel{3^5} \ x \ \cancel{2^5} x\ 5^5 \ x\ 5^2}{5^7 \ x \ \cancel{2^5} \ x\ \cancel{3^5}}$	1
	$\dfrac{5^{2+5}}{5^7}$ = 1	1
21	Square – 4 – 90^0	1
	Rectangle – 2 – 180^0	1
	Equilateral Triangle – 3 - 60^0	1

Q. No	Steps/Answers	Marks
22	Correct drawing of each view – 1 mark Top – Side - Front –	3 x 1 = 3
23	In the given triangles, < A = < F and < B = < E Therefore <C = <D < B = < E, side BC = side ED and <C = <D by ASA criterion, Δ ABC ≅ Δ FED.	1 2 1
24	Let the cost price be Rs.100 Profit % = 20, So, SP = 100 +20 = Rs.120 If 120 is SP, CP = 100 So, SP = 480 , CP = (480/120) x 100 = 400 [Or] For finding the decrease as 25000 -24500 = 500 Decrease percent formula and correct substitution Finding the result as 2%	2 2 1 2 1
25	Area of the park = 45 m x 30 m = 1350 sq. m Length of the outer rectangle = 45 + 2(2.5) = 50 m. Breadth = 30m + 2(2.5) = 35m. Area of the outer rectangle = 50 x 35 = 1750 sq.m. Area of the path = 1750 – 1350 = 400 sq.m.	1 1 1 1
26	For finding correct sum of expressions as $(4 + 3x) +(5 – 4x + 2x^2) = 9 – x + 2x^2$ $(3x^2 – 5x) + (–x^2 + 2x + 5)= 2x^2 – 3x +5$ For finding the difference as 4 +2x	1 ½ 1 ½ 1