

KENDRIYA VIDYALAYA SANGATHAN JAIPUR REGION
SESSION ENDING EXAMINAION 2025-26
CLASS –VIII
MARKING SCHEME
SECTION -A

1	(C) 3
2	(B) 9 AND 0
3	(D) 4ab
4	(B) 5y + 45+ yz+ 9z
5	(D) none of these
6	(C) 3:10
7	(B) 28kg
8	(D)60%
9	(C) 1
10	(A)) 16and 17

SECTION –B

11	Let x,x+1, x+2 and x+3 $x+x+1+x+2+x+3 = 34$ $4x+6 = 34$ $x= 7$ number 7,8,9,and 10
12	$(a-b) (a-b) = (a - b)^2$ $= (a - b)^2 = a^2 - 2ab + b^2$, a= $\frac{1}{2}x$, b = $\frac{1}{5}y$ $\frac{1}{4}x^2 - \frac{1}{5}xy + \frac{1}{25}y^2$
13	420 km
14	SP = ₹110 CP= ₹75 PROFIT SP-CP = ₹110 – ₹75 = ₹35 Profit % = $\frac{\text{Profit}}{\text{CP}} \times 100$ $= \frac{35}{75} \times 100 = 46.67$
15	Half of diagonal = $\frac{24}{2} = 12$ units and $\frac{70}{2} = 35$ units The side length of the rhombus is the hypotenuse of the right – angled triangle by Pythagorean $s^2 = a^2 + b^2$ $= 12^2 + 35^2 = 144 +1235$ $s^2= 1369$, s = $\sqrt{1369}$ s = 37units
SECTION C	

16	<p>Let the common ratio be x Then sides 1x, 3x and 5x Perimeter = 90cm $1x+3x+5x = 90$, $9x = 90$, $x = 10$ Smallest side =10cm, middle side = 30cm, Largest side = 50cm</p>
17	<p>The multiple of 9 are between the number 4300 and 4400 are 4302, 4311,4320-----4392 The number of multiple of 9 = $\frac{\text{last term}-\text{first term}}{\text{difference}} +1$ $\frac{4392-4302}{9} +1 = 11$</p>
18	<p>1) $406^2 = (400 + 6)^2 = 164836$ 2) $99^2 = (100 - 1)^2 = 9801$</p>
19	<p>75% 75% 1/4</p>
SECTION D	
20	<p>$(m - n)^2 = m^2 + n^2 - 2mn$ (1) $(m + n)^2 = m^2 + n^2 + 2mn$ (2) By eq. 1 $(16)^2 = 400 - 2mn$, $mn = 72$ By eq. 2 $= 400 + 2 \times 72$ $= 400 + 144 = 544$ $(m + n)^2 - (m - n)^2 = 288$</p>
21	<p>Condition- 1 If a number leaves remainder 2 when divided by 3, it can be written as $n = 3k + 2$ Where k is an integer Condition – 2 If a number leaves remainder 2 when divided by 4, it can be written as $n = 4m + 2$ Where m is an integer Let us list some number that leave remainder when divided by 3 2,5,8,11,14,17,23,26---- Now list some numbers that leave remainder 2 when divided by 4 2,6,10,14,18,22,26,30----- Common numbers in both list 2,14,26,38--- Numbers are 2,14,26 Algebraic expression $n = 12k + 2$</p>

22	<p>Number of bricks required for 10ft wall =1450</p> <p>So 10ft:1450bricks</p> <p>Total length of wall 108ft</p> <p>Let x bricks be required for 108ft long wall.</p> <p>Ratio = 108ft : x</p> <p>These ratios are in proportion</p> <p>10:1450::108:x</p> <p>X = 15660 bricks</p>
23	<p>Short length = 8 cm</p> <p>Hypotenuse = 17 cm</p> <p>Baudhayana's theorem (Pythagoren theorem)</p> <p>State that for a right- angled triangle with legs of lengths a and b and hypotenuse of length c the relationship $a^2+b^2 = c^2$</p> <p>$8^2+b^2 = 17^2$</p> <p>$b^2= 225$</p> <p>$b =\sqrt{225}$, b= 15 cm</p>
SECTION E	
24	<p>(i) 26.6%</p> <p>(ii) 73.33%</p> <p>(iii) 200ml</p> <p>(iv) 550 ml</p>
25	<p>1) X+1</p> <p>2) X,3</p> <p>3) X=4</p>