BCM SCHOOL, BASANT AVENUE, DUGRI, LUDHIANA. ANSWER KEY OF FEBRUARY ASSIGNEMENT CLASS- VIII (MATHEMATICS)	
	SECTION –A (MULTIPLE CHOICE QUESTIONS)
1.	c) 294 cm <sup>2</sup>
2. 3.	c) 6400
3.	a) Both A and R are true and R is the correct explanation of A SECTION – B( 2 MARKS QUESTIONS)
4. Let the sides be 4x and 5x	
4.	
	Area of trapezium = $\frac{1}{2}$ x height x sum of parallel sides
	Therefore, sides are 20cm and 25 cm
5.	Area of rhombus = $\frac{1}{2}$ x d <sub>1</sub> x d <sub>2</sub>
	Therefore, other diagonal is 18 cm
SECTION – C (3 MARKS QUESTIONS)	
6.	Radius = 3.5m
	Height = 16m
	Volume of earth dug out = $\pi r^2 h = 616m^3$
	Area of platform = $(25 \times 16)m^2 = 400m^2$
	Height of the platform = $\frac{Volume}{Area}$ = 1.5m
7.	Let the dimensions of the cuboid be 2x, 3x and 4x
	TSA of cuboid = $2(lb + bh + hl) = 468$
	x = 3
	Hence, dimensions are 6m , 9m and 12m
SECTION – D (5 MARKS QUESTIONS)	
8.	Length of the longest pole = Length of the diagonal of the cuboidal room
	$=\sqrt{l^2+b^2+h^2}=15m$
9.	Let the edge of the third cube be I
	Sum of the volume of three smaller cubes = Volume of metal cube
	$(5)^3 + (4)^3 + (1)^3 = 2933$
	I = 14 cm