

**School Name:****2nd Semester Exam : YEAR -**

Name : ..... Date .....

Roll No.: ..... Class : VIII Div : ..... Subject : Mathematics Marks :50

**Q.1 Fill in the blanks.(5)**

( circular , volume , area , mean , arcs , space , triangular , compound , face )

1. The average is called ..... in statistical language.
2. Solid figures occupy some .....
3. The chords corresponding to congruent .....are congruent.
4. Base of a cylinder is .....
5. .... of a cuboid = l X b X h

**Q.2 Match the pairs. (5)**

GROUP A	ANSWER	GROUP B	
$\pi$		2 litre	t=1
2000 cc		t=11	1 litre
$t - 8 = 3$		22/7	t= (-11)
$9 + t = 10$		7/22	t=(-1)
$21t^2 / 3t$		7t	3t

**Q.3 Write the formula for the following. (5)**

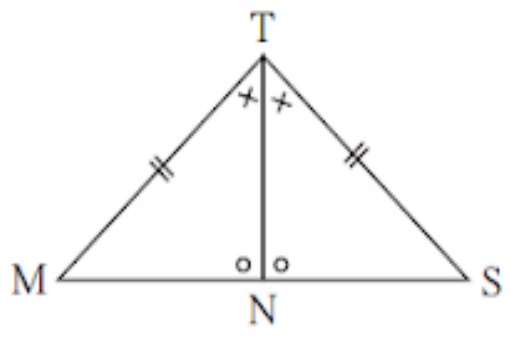
1: Area of circle =	2: Volume of cylinder =
3: Volume of cube =	4: Area of triangle =
5: Volume of a cuboid =	

**Q.4 Solve the following. (15)**

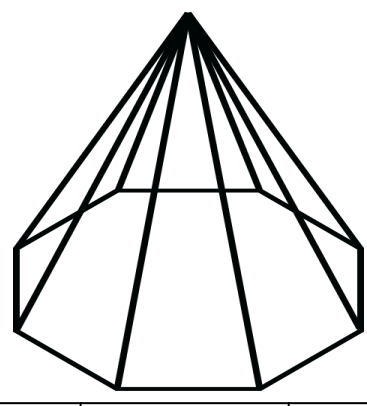
A. Divide. Write the quotient and the remainder. $(a^2 + 7a - 5) \div (a + 3)$	
--	--

B. Solve the following equation.  
 $-4 + 9b = 6b + 29$

C. State the test and the one to one correspondence of vertices by which the triangles are congruent.



D. Write no of faces, vertices & edges of given shape & verify Euler's Formula.



Faces -	Vertices -	Edges -
---------	------------	---------

E. If the base of a parallelogram is 18 m and its height is 11 m, find its area.

**Q.5 Solve the following. (20)**

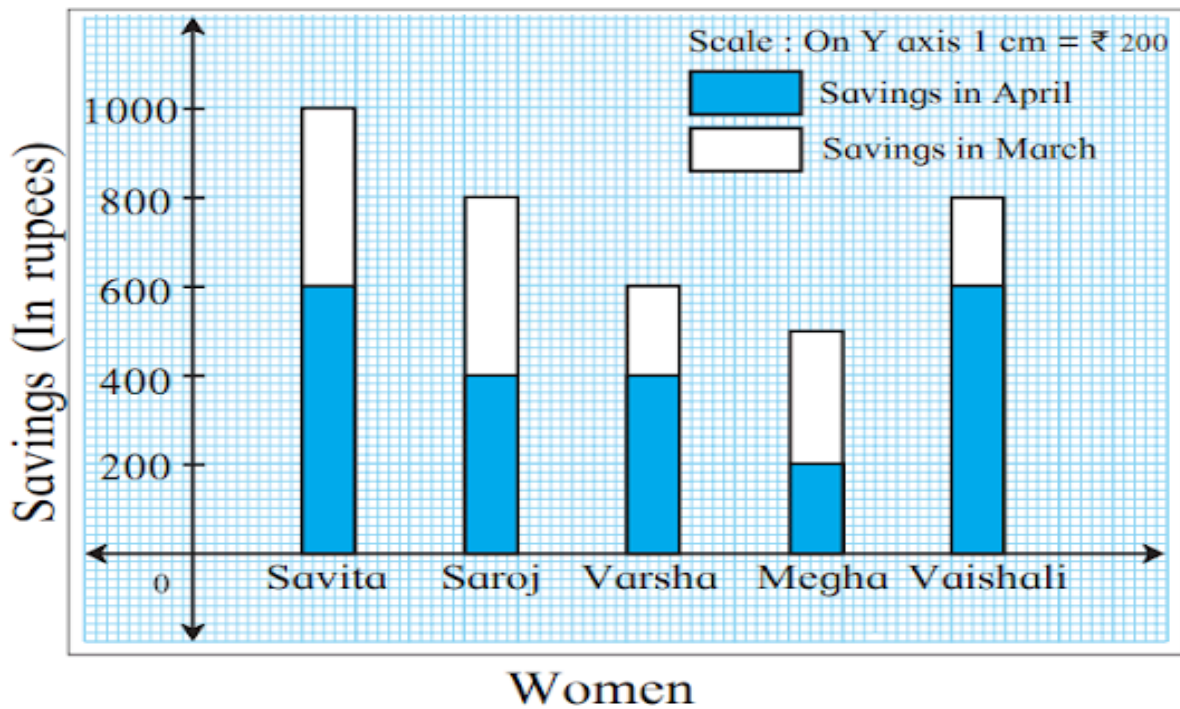
A. Find the volume of a box if its length, breadth and height are 20 cm, 10.5 cm and 8 cm respectively.

B. Find the curved surface area of the cylinder.  $r = 7$  cm,  $h = 10$  cm

C. N is the centre of the circle whose radius is 10 cm. Find the distance of the chord from the centre if the length of the chord is 12 cm.

D. Find the number of years for which the compound interest of ₹9000 is ₹1890, at the rate of 10 p.c.p.a

E. Observe the following graph and answer the questions.



1. How much is the savings of Vaishali in the month of April? .....
2. How much is the total savings of Saroj in the months March and April?.....
3. How much more is the total savings of Savita than the total savings of Megha?.....
4. Whose savings in the month of April is the least? .....