

FORMATIVE ASSESSMENT – SECOND MID TERM

MATHEMATICS

Max. Marks: 50

Std - VII

Time: 2 Hrs

|                     |                      |
|---------------------|----------------------|
| Name of the School: | Name of the Student: |
| Place:              | Roll No.:            |

I. Choose the correct answer:

10 x 1 = 10

1. The circumference of a circle is  $10\pi$  cm. Its diameter is \_\_\_\_\_.  
a) 5cm                                      b) 10cm                                      c)  $2\pi$ cm                                      d)  $4\pi$ cm

2. Area of circle is \_\_\_\_\_ sq units.  
a)  $\pi r$                                       b)  $\pi r^2$                                       c)  $2\pi r$                                       d)  $\frac{2\pi}{r}$

3. The circumference of a circle is  $2\pi$  cm. Its area is \_\_\_\_\_.  
a)  $\pi\text{cm}^2$                                       b)  $2\pi\text{cm}^2$                                       c)  $4\pi\text{cm}^2$                                       d)  $8\pi\text{cm}^2$

4. 5927 m is equal to \_\_\_\_\_ km.  
a) 59.27                                      b) 5.927                                      c) 592.7                                      d) 59270

5.  $\frac{8}{16}$  can be written \_\_\_\_\_ in decimal form.  
a) 1.2                                      b) 5.0                                      c) 0.5                                      d) 0.05

6. The place value of 4 in 4320 is \_\_\_\_\_.  
a) Tens                                      b) Hundreds                                      c) Thousands                                      d) Ones

7. The place value of 5 in 90.257 is \_\_\_\_\_.  
a) Tenths                                      b) Hundredths                                      c) Hundreds                                      d) Tens

8.  $30 + 4 + \frac{5}{10} + \frac{6}{100} + \frac{0}{1000}$  is equal to \_\_\_\_\_.  
a) 34.560                                      b) 345.60                                      c) 3.4560                                      d) 34.56

9. The decimal representation of 7m 9cm is \_\_\_\_\_ m.  
a) 7.09                                      b) 7.9                                      c) 7.90                                      d) 7.090

10. The ratio of the radii of 2 circles is 1:2. The ratio of their areas is \_\_\_\_\_.  
a) 1:2                                      b) 2:1                                      c) 1:4                                      d) 4:1

II. Match the following:

5 x 1 = 5

11. Area of circle

—

Semi circle
12. Circumference of the circle

—

0.185
13. Half of a circle

—

0.52
14.  $\frac{37}{200}$

—

$2\pi r$
15.  $\frac{13}{25}$

—

$\pi r^2$

III. Do as directed:

10 x 2 = 20

16. Express the following.

a) Convert 9cm to m                      b) Convert 13mm to cm                      c) Convert 17km to m
17. Write the following decimal numbers in expanded form and draw the place value grid.

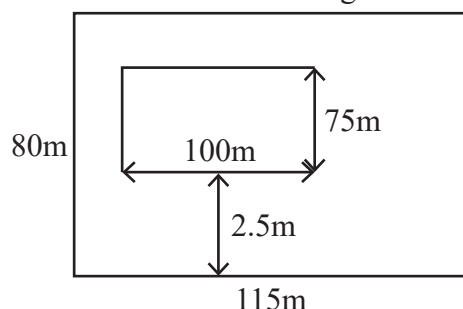
a) 721.06                                      b) 801.24

18. Convert the following decimals into fractions:  
 a) 3.65                                      b) 967.45
19. Write the following as decimal numbers.  
 a)  $50 + \frac{6}{1000}$                                       b)  $\frac{1}{10} + \frac{3}{100} + \frac{5}{1000}$
20. Fill in the blanks with  $<$ ,  $>$ , or  $=$   
 a) 0.0006      \_\_\_\_\_      0.00600  
 b) 75.5      \_\_\_\_\_      75.50
21. The circumference of a circular frame is 88cm. Find its radius and diameters. (Take  $\pi = \frac{22}{7}$ )
22. Find the area of the circle whose diameter is 21cm (Take  $\pi = \frac{22}{7}$ )
23. Find the area of a circle.  
 a) radius = 14cm                                      b) diameter = 28cm
24. Draw a circle of Radius 4cm and calculate its area and circumference.
25. Define a chord.

**IV. Do as directed: (Any 3)**

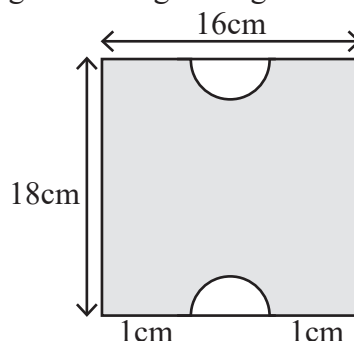
**3 x 5 = 15**

26. a) Mr. Roshan bought two mechanical drafting pencils with thickness 0.05cm and 0.03cm respectively. Which pencil will yield a thicker line?  
 b) Express the following fractions as decimal numbers.  
 a)  $\frac{11}{20}$                                       b)  $4\frac{3}{5}$                                       c)  $25\frac{1}{4}$
27. a) A rectangular plot is 115m long and 80m broad. It has a 2.5m wide path all around it on the inside. Find the area of the path and the cost of constructing at ₹ 110 perm<sup>2</sup>.



(or)

- b) Find the area of the shaded region in the given figure.



28. Identify the decimal, number represented by the points J, K, L, M, and N on the following number line.

