

## 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

- The circumference of a circle is  $10\pi$  cm. Its diameter is \_\_\_\_\_.  
 a) 5cm      b) 10cm      c)  $2\pi$ cm      d)  $4\pi$ cm
- Area of circle is \_\_\_\_\_ sq units.  
 a)  $\pi r$       b)  $\pi r^2$       c)  $2\pi r$       d)  $\frac{2\pi}{r}$
- The circumference of a circle is  $2\pi$  cm. Its area is \_\_\_\_\_.  
 a)  $\pi cm^2$       b)  $2\pi cm^2$       c)  $4\pi cm^2$       d)  $8\pi cm^2$
- 5927 m is equal to \_\_\_\_\_ km.  
 a) 59.27      b) 5.927      c) 592.7      d) 59270
- $\frac{8}{16}$  can be written \_\_\_\_\_ in decimal form.  
 a) 1.2      b) 5.0      c) 0.5      d) 0.05
- The place value of 4 in 4320 is \_\_\_\_\_.  
 a) Tens      b) Hundreds      c) Thousands      d) Ones
- The place value of 5 in 90.257 is \_\_\_\_\_.  
 a) Tenths      b) Hundredths      c) Hundreds      d) Tens
- $30 + 4 + \frac{5}{10} + \frac{6}{100} + \frac{0}{1000}$  is equal to \_\_\_\_\_.  
 a) 34.560      b) 345.60      c) 3.4560      d) 34.56
- The decimal representation of 7m 9cm is \_\_\_\_\_ m.  
 a) 7.09      b) 7.9      c) 7.90      d) 7.090
- 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

- Express the following.  
 a) Convert 9cm to m      b) Convert 13mm to cm      c) Convert 17km to m
- 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?

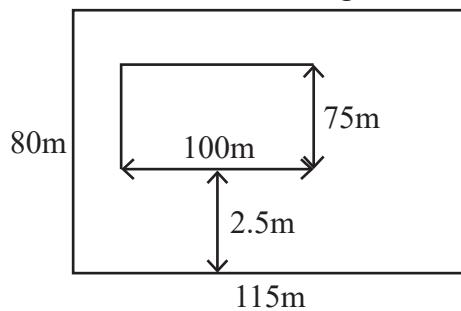
b) Express the following fractions as decimal numbers.

a)  $\frac{11}{20}$

b)  $4 \frac{3}{5}$

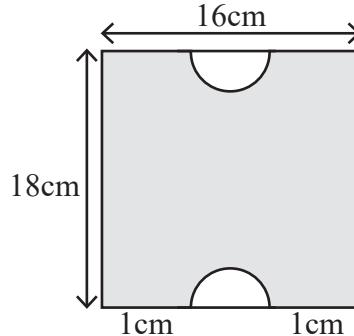
c)  $25 \frac{1}{4}$

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.

