

VISWADEEPTHI MATRICULATION HIGHER SECONDARY SCHOOL
STUDY MATERIAL
MATHEMATICS

CLASS: IV STD

I. Choose the correct answer:

1. A chessboard is a 2D shape.
a) 2 D b) 3 D c) both a and b
2. All the six faces are equal in cube.
a) Cuboid b) Cube c) Sphere
3. The expanded form of 6327 is 6000 + 300 + 20 + 7.
a) 6000 + 300 + 20 + 7 b) 6 TH 3 H 2 T 7 O c) 6000 + 320 + 7
4. Odd numbers end with 1.
a) 0 b) 1 c) 6
5. Sum of two numbers is 8000. One of the numbers is 5500. The other number is 2500.
a) 3000 b) 2500 c) 250

II. Fill in the blanks:

1. All the radii of a circle is equal.
2. 6327 is an odd number.
3. The face value of 6 in 8965 is 6.
4. The smallest and greatest 4 digit numbers formed using 1, 7, 0, 5 once are 1057 and 7510.
5. The difference between 6999 and 8999 is 2000.

III. Write True or False:

- | | |
|--|-------------------|
| 1. A sphere has only one curved surface. | Ans: True |
| 2. 10,000 is the smallest 5 digit number. | Ans: True |
| 3. The place value of 1 in 5149 is 1000. | Ans: False |
| 4. The contracted form of 6000 + 20 + 300 + 4 is 6234. | Ans: False |
| 5. The value of 1 + 11 + 111 + 1111 – 222 is 4321. | Ans: False |

IV. Match the following:

- | | | |
|------------------------------|---|-------------------|
| 1. 9999 | - | a) 700 |
| 2. <u>7</u> 704(place value) | - | b) 7000 |
| 3. 444 + 4444 – 800 | - | c) 4 digit number |
| 4. 7777 – 777 | - | d) 3 D shape |
| 5. Cuboid | - | e) 4088 |

Ans: 1) c 2) a 3) e 4) b 5) d

V. Answer the following questions:

1. Find the diameter of the circle with given radius = 8cm.

Ans: Given, Radius = 8 cm

To find: Diameter

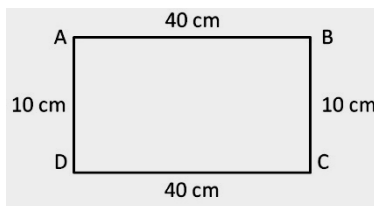
$$\text{Diameter} = 2 \times \text{Radius}$$

$$= 2 \times 8$$

$$= 16$$

$$\text{Diameter} = 16 \text{ cm}$$

2. Find the perimeter of the following diagram:



Sol: Given, AB = CD = 40 cm

$$BC = AD = 10 \text{ cm}$$

Perimeter = Sum of all the sides

$$= AB + BC + CD + AD$$

$$= 40 + 10 + 40 + 10$$

$$\text{Perimeter} = 100 \text{ cm}$$

3. Find the face value and place value of the digit underlined in the given numbers.

i) 1 3 7 9

ii) 5 1 3 6

S.No	Number	Face Value	Place value
1	1 <u>3</u> 7 9	3	300
2	<u>5</u> 1 3 6	5	5000

4. Write in Ascending and Descending order:

5201, 5627, 4325, 9999, 9801

Ascending order: 4325, 5201, 5627, 9801, 9999

Descending order: 9999, 9801, 5627, 5201, 4325

5. The sum of two numbers is 7036. If one of the number is 3168.
Find the other number.

Sol: Sum of the two numbers = 7 0 36

One of the number = 3 1 6 8

Another number = $7036 - 3168 = 3868$

6. Write in expanded form:

a) 6409 b) 5432

a) $6409 = 6000 + 400 + 0 + 9$

b) $5432 = 5000 + 400 + 30 + 2$

7. Convert into lower units:

a) 12 m = _____ cm.

b) 13 cm = _____ mm.

Sol: $12 \text{ m} = 12 \times 100 = 1200 \text{ cm}$

$13 \text{ cm} = 13 \times 10 = 130 \text{ mm}$

8. Add: 12 m 340 cm, 14 m 470 cm, 5 m 220 cm.

Sol:

m	cm
12	340
14	470
05	220
32	0 30

9. How long will it take for the hour hand to move?

a) From 10 : 00 to 8 : 00

b) From 2 : 30 to 4 : 00

Ans: a) 10 Hours

b) 1 Hour 30 Minutes

10. Write the 2 digit numbers formed using 3, 1, 6 once.

Ans: 31, 36, 13, 16, 63, 61

VI. Answer the following:

1. Simplify: $(5400 - 250) + (4400 - 240)$

Ans: **$5400 - 250$**

$$\begin{array}{r} 5400 \\ (-) 250 \\ \hline 5150 \\ \hline \end{array}$$

$4400 - 240$

$$\begin{array}{r} 4400 \\ (-) 240 \\ \hline 4160 \\ \hline \end{array}$$

$$(5400 - 250) + (4400 - 240) = 5150 + 4160 = 9310$$

2. Heights of a flag post and lamp post are 15 m 25 cm and 6 m 45 cm. Which post is tall and how much?

Sol:

Height of flag post	=	15 m	25 cm
Height of lamp post	=	06 m	45 cm
		(-)	
Difference	=	08 m	80 cm

Tallest post = flag post = 15 m 25 cm

Difference = 8 m 80 cm