

**NUMBER SYSTEM**

**I. Answer the Following Questions**

1. What is maths all about?

Ans: \_\_\_\_\_

2. What is a number?

Ans: \_\_\_\_\_

3. How can we use numbers?

Ans: Numbers can be used as \_\_\_\_\_

\_\_\_\_\_

4. What are Numerals and its types?

Ans: A numeral is a \_\_\_\_\_

\_\_\_\_\_

5. Write Number Names from 1 to 20?

Ans: One, \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

6. What are Tens Numbers?

Ans: Twenty, \_\_\_\_\_

\_\_\_\_\_

7. Write Roman Numerals from 1 to 20?

Ans: 1      I

2      II


## **II. Fill in the Given Blanks**

1. Maths is short for \_\_\_\_\_
2. We use digits 0,1,2,3,4,5,6,7,8,9 to make our \_\_\_\_\_
3. 9999 is a \_\_\_\_\_ Digit Number.
4. \_\_\_\_\_ are the Alphabetical form of Numbers.
5. 100000 in International System called as \_\_\_\_\_
6. In Roman Number System 1000 is represented as \_\_\_\_\_
7. Ascending Order is also Called as \_\_\_\_\_
8. 44,28,55,65,99,24,27 arrange in Descending Order \_\_\_\_\_

## **III . Multiple Choice Questions**

1. 123, 525, 685 ,562, 852 can be arrange in **descending order** as [ a ]  
(a) 852,685,562, 525,123 (b) 525,685,562,852,123  
(c) 562,123,852,685,525 (d) 123,525,562,685,852
2. 20 is **less than** 24 is written as [ ]  
(a)  $20 < 24$  (c)  $24 > 20$   
(b)  $20 = 24$  (d)  $20 \neq 24$
3. 15 is **greater than** 12 is written as [ ]  
(a)  $15 < 12$  (c)  $12 > 15$   
(b)  $15 > 12$  (d)  $15 \neq 12$
4. 123, 525, 685 ,562, 852 can be arrange in **Ascending order** as [ ]  
(a) 525,685,562,123,852 (c) 525,685,562,852,123  
(b) 562,123,852,685,525 (d) 123,525,562,685,852
5. In Roman Numerals **60** is Written as [ ]  
(a) LX (c) XL  
(b) IXL (d) XIL
6. The biggest **two digit** number is [ ]  
(a) 2 (c) 01  
(b) 10 (d) 99

**IV. Match the following**

- |                      |                  |
|----------------------|------------------|
| 1. Numbers tell you  | (a) Six          |
| 2. One Crore equals  | (b) How many     |
| 3. Figure Numeral is | (c) Number code  |
| 4. Word Numeral is   | (d) Ten Millions |
| 5. Barcode is        | (e) 6            |
- 

**NUMBER SYSTEM**

**I. Answer the Following Questions**

1. What are Cardinal Numbers?

Ans: One, Two

2. What are Ordinal Numbers?

Ans: 1<sup>st</sup>, 2<sup>nd</sup>

3. How many Types of Numbers are there?

Ans: Counting Numbers,  
 \_\_\_\_\_

4. What is Even Number? Give an Example?

Ans: \_\_\_\_\_  
 \_\_\_\_\_

5. What is Odd Number? Give an Example?

Ans: \_\_\_\_\_  
 \_\_\_\_\_

6. What is the place value of 3 in Indian and International Place Value System in the below table?

Indian Place Value System								
CRORES		LAKHS		THOUSANDS		ONES		
TC	C	TL	L	T-TH	TH	H	T	O
		2	3	1	9	6	1	7

International Place Value Chart								
MILLIONS			THOUSANDS			ONES		
HM	TM	M	HTh	TTh	Th	H	T	O
		2	3	1	9	6	1	7

## II. Fill in the Given Blanks

1. Smallest Six digit Number is \_\_\_\_\_
2. Write 11 in Cardinal Form \_\_\_\_\_
3. Write Fourth in Ordinal Form \_\_\_\_\_.
4. Whole Numbers always start with \_\_\_\_\_
5. Indian system of Numeration is also called as \_\_\_\_\_.
6. Unit Place of number 2564 is \_\_\_\_\_
7. The number in the standard form is written by \_\_\_\_\_
8. Odd Number always gives remainder \_\_\_\_\_

## III . Multiple Choice Questions

7. The **Biggest single Digit** number is [ a ]  
(a) 9 (c) 1  
(b) 0 (d) 19
8.  $\sqrt{2}$  is an **example** of what type of number [ ]  
(a) Whole Number (c) Rational Number  
(b) Integers (d) Irrational number
9. **Two Crores, Fifty Six Lakhs, Twenty five thousand, Two Hundred and Sixty three** is [ ]  
(a) 25625263 (c) 26525263  
(b) 25625236 (d) 52625263
10. **Number Name** of 1105 is [ ]  
(a) One One Zero Five (c) Eleven Zero Five  
(b) One Thousand One Hundred and five (d) Eleven Thousand and Five
11. **Commas** separate the numbers into **groups** known as [ ]  
(a) Number System (c) System  
(b) Digits (d) Periods
12. The **Indian Place Value Chart** has \_\_\_\_\_ Periods [ ]  
(a) 2 (c) 03  
(b) 4 (d) 01

#### **IV. True or False**

1. Basically we Indian follows the international number system [ ]
2. 3 is an Even Number [ ]
3. 1000 is the biggest 4 digit Number [ ]
4. Zero is not a part of integers [ ]
5. 2 is called even prime number [ ]

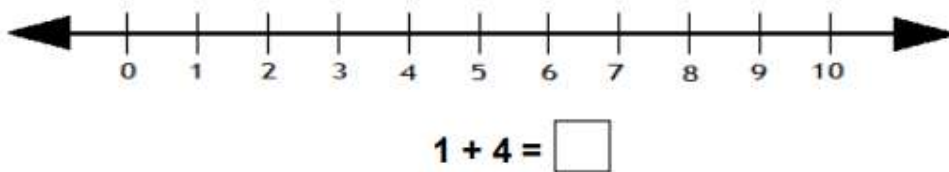
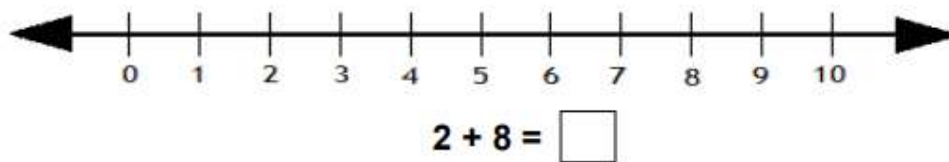
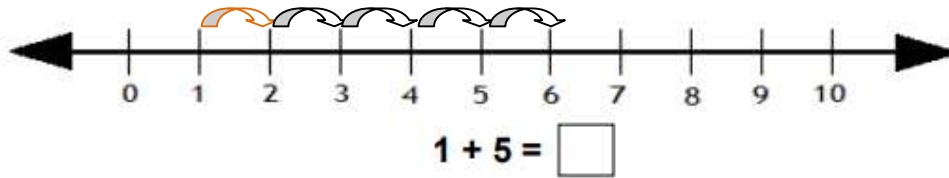
**ADDITION**

**I. Answer the Following Questions**

1. What is Addition?

Ans: The process of \_\_\_\_\_  
 \_\_\_\_\_

2. Solve the following by drawing hops on the number line



3. Add the Following Numbers

(a) 2465

+ 9545  
 \_\_\_\_\_  
 \_\_\_\_\_

(b) 58964

+ 65486  
 \_\_\_\_\_  
 \_\_\_\_\_

(c) 689235

+ 589756  
 \_\_\_\_\_  
 \_\_\_\_\_

(d) 6425

+ 2234  
 \_\_\_\_\_  
 \_\_\_\_\_

3. What is Commutative Property of Addition? Give an Example

Ans:

4. What is Associative Property of Addition? Give an Example?

Ans:

5. What is Identity Property of Addition? Give an Example?

Ans:



## **II. Word Problems in Addition**

1. A School Library has 3850 books in kannnada, 4562 books in English, and 5485 books in other languages. Total how many books are there in Library?

Sol :

2. Santosh deposited 12456 rupees in bank on Tuesday and 6589 rupees on Wednesday. What is the amount of money deposited by him in bank in these 2 days?

Sol:

3. In an Examination 75236 students passed and 14875 students failed. Find how many students appeared for the examination?

Sol:

4. There are 4375 male and 5689 female high school teachers in a city. Find Total number of teachers in the city?

Sol:

5. A man plucked 4582 Apples from one tree, 5231 Apples from Second tree and 2313 Apples from third tree. Find the total number of Apples plucked from the trees?

Sol:

### **III. Estimating sum by rounding**

1.  $48+33 = 48$  is rounded to **50** and  $33$  is rounded to **30** ,therefore

$$50+30=80$$

The estimated sum of  $48+33=$ 

80
----

2.  $27+88$

3.  $458+698$

4.  $2778+5657$

#### **IV . Multiple Choice Questions**

1. The  $A+0$  is [   ]  
(a) 0 (c) A  
(b)  $0+A$  (d)  $A-0$
2. Commutative property satisfies  $a+b =$  [   ]  
(a)  $a^2+b^2$  (c)  $b+a$   
(b)  $a-b$  (d)  $b-a$
3. **Numbers that are added are called** [   ]  
(a) Dividends (c) Addends  
(b) Extra (d) Quotient
4. **We use \_\_\_\_\_ numbers** for estimation to nearest tens, Hundreds [   ]  
(a) circled (c) square  
(b) rounded (d) rectangular
5.  $2+6 = 6+2$  satisfies which property [   ]  
(a) distributive (c) Associative  
(b) commutative (d) closure
6. **Addend+ Addend =** [   ]  
(a) growth (c) difference  
(b) sum (d) result

### SUBTRACTION

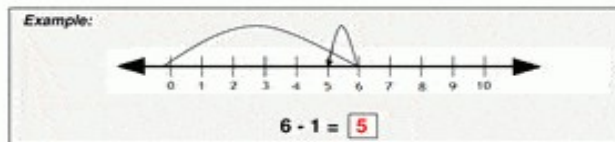
#### I. Answer the Following Questions

1. What is Subtraction?

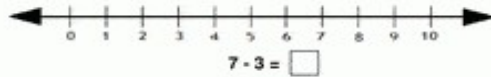
Ans: The process of \_\_\_\_\_

\_\_\_\_\_

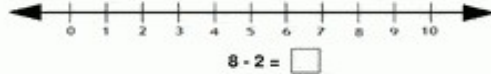
2. Solve the following by drawing hops on the number line



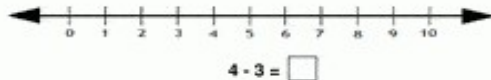
1.



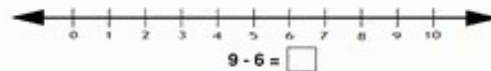
2.



3.



4.



3. Subtract the Following Numbers

(a)  $9545$

$$\begin{array}{r} 9545 \\ - 2465 \\ \hline \\ \hline \end{array}$$

(b)  $65486$

$$\begin{array}{r} 65486 \\ - 58964 \\ \hline \\ \hline \end{array}$$

(c)  $689235$

$$\begin{array}{r} 689235 \\ - 589756 \\ \hline \\ \hline \end{array}$$

(d)  $6425$

$$\begin{array}{r} 6425 \\ - 2234 \\ \hline \\ \hline \end{array}$$

3. What are the properties of subtraction?

Ans:

### **II. Word Problems in Addition**

1. Faheem has Rs 7856 in his bank; he withdraws Rs 2340 on Monday and Rs 3250 on Tuesday. What amount is still left in his bank account?

Sol:

2. Satis earns Rs 8800 monthly as his salary, he saves Rs 1500 monthly. What is her monthly expenditure ?

Sol:

3. By how much is smallest 5- digit number is greater than largest 4-digit number?

Sol:

4. Rajani bought a Pressure cooker for Rs 4520. She gave the shopkeeper Rs 5000? What amount will be returned by the shopkeeper?

Sol:

5. An animal care society tested 3560 pet animals. 1270 were infected by diseases. Find the number of healthy pet animals that participated in the medical tests?

Sol:

### **III. Estimating the difference by rounding**

1.  $68+37 = 68$  is rounded to **70** and  $37$  is rounded to **40** ,therefore

$$70-40=30$$

The estimated difference of  $70-40=$  30

2.  $88-27$

3.  $698-459$

4.  $5657-4250$

## IV . Multiple Choice Questions

1. The **A-0** is [ ]  
(a) 0 (c) A  
(b) 0-A (d) A+0
2. **Minuend-Subtrahend=** [ ]  
(a) Total (c) Difference  
(b) Subtract (d) between
3. **Is the sign of Subtraction** [ ]  
(a) - (c) +  
(b) x (d) \*
4. **We use \_\_\_\_\_ numbers** for estimation to nearest tens, Hundreds [ ]  
(a) circled (c) square  
(b) rounded (d) rectangular
5. **0-2 = 2-0** [ ]  
(a) satisfies (c) unsatisfied  
(b) Equals (d) closure

**MULTIPLICATION**

**I. Answer the Following Questions**

1. What is Multiplication?

Ans: The Multiplication of \_\_\_\_\_  
\_\_\_\_\_

2. Define the following Terms with examples.

(a) **Factors:**

(b) **Product:**

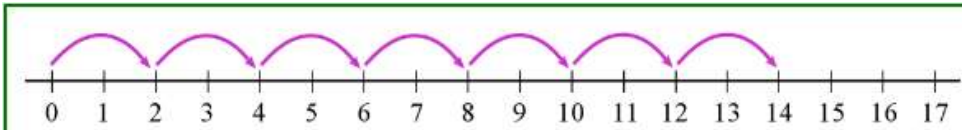
(c) **Multiplicand:**

(d) **Multiplier:**

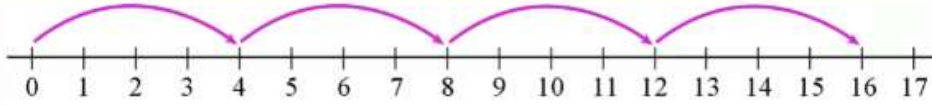
(e) **Skip Counting :**



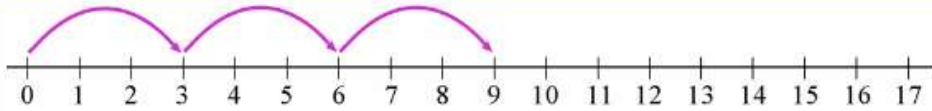
3. Write the multiplication sentence that the jumps on the number line illustrate



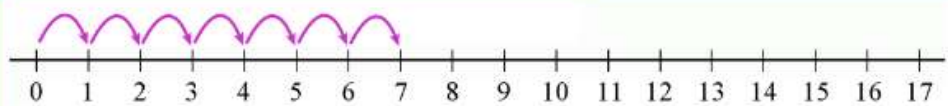
a.  $\underline{\quad} \times \underline{\quad} = \underline{\quad}$



b.  $\underline{\quad} \times \underline{\quad} = \underline{\quad}$



c.  $\underline{\quad} \times \underline{\quad} = \underline{\quad}$



d.  $\underline{\quad} \times \underline{\quad} = \underline{\quad}$

2. Solve the following Problems

(a) 123

$$\begin{array}{r} X \ 4 \\ \hline \\ \hline \end{array}$$

(b) 52

$$\begin{array}{r} x \ 49 \\ \hline \\ \hline \end{array}$$

(c) 564

$$\begin{array}{r} x \ 59 \\ \hline \\ \hline \end{array}$$

(d) 986

$$\begin{array}{r} x \ 456 \\ \hline \\ \hline \end{array}$$

(e) 4568

$$\begin{array}{r} x \ 564 \\ \hline \\ \hline \end{array}$$

(f) 10000

$$\begin{array}{r} x \ 99999 \\ \hline \\ \hline \end{array}$$

## **II. Word Problems in Multiplication**

1. The cost of a flat is Rs 8,20,000, if there are 30 similar flats in a building how much money will be collected for selling the flats ?

Sol:

2. A game rewards a player 250 points every time the player finds a treasure chest. How many points will the player get if he finds 20 Treasure chests?

Sol:

3. Every month 23 matches are played in local stadium. How many matches will be played in a year?

Sol:

4. On her Birthday, Salma distributes sweets among 35 sections of her school and each section has 32 students. How many sweets does Salma distribute in all?

Sol:

5. In a Shoe rack there are 25 shoes in a row and there are 32 rows in the shoe-rack. How many shoes are there in total?

Sol:

### III . Multiple Choice Questions

1. The  $0 \times 1$  is [ ]  
(a) 0 (c) 1  
(b) 11 (d) 00

2. The Multiplication of number may be thought of as a repeated [ ]  
(a) Sum (c) Difference  
(b) Subtraction (d) Addition

3. Is the sign of Multiplication [ ]  
(a) - (c) +  
(b) x (d) \*

4. Factors are numbers that are being \_\_\_\_\_ [ ]  
(a) circled (c) square  
(b) Multiplied (d) Tables

5. Skip counting is a method of counting \_\_\_\_\_ [ ]  
(a) Satisfies (c) forward  
(b) equals (d) backward

**MULTIPLICATION**

**I. Answer the Following Questions**

1. What are the two special cases when multiplying?

Ans: When multiplying with \_\_\_\_\_  
\_\_\_\_\_

2. Define the following Properties of Multiplication? Write with examples?

(a) **Commutative Property:**

(b) **Associative Property:**

(c) **Identity Property:**

(d) **Zero Property :**

3. Solve  $35 \times 32$  using Grid Method Multiplication?

4. Draw Smart multiplication table from 1 to 15?

5. Write the Short-cut methods of multiplying with 11 and 90's?

### III . Multiple Choice Questions

1. The  $0 \times 1$  is [ ]

- (a) 0 (c) 1  
(b) 11 (d) 00

6. The Multiplication of number may be thought of as a repeated [ ]

- (a) Sum (c) Difference  
(b) Subtraction (d) Addition

7. Is the sign of Multiplication [ ]

- (a) - (c) +  
(b) x (d) \*

8. If we multiply 10 by any whole number then we write one zero at the end of \_\_\_\_ [ ]

- (a) Multiplicand (c) factor  
(b) Multiplied (d) Multiples

9. We use rounded number for \_\_\_\_\_ to its nearest tens, hundreds [ ]

- (a) Estimation (c) Zero  
(b) Calculation (d) Simplification

**DIVISION**

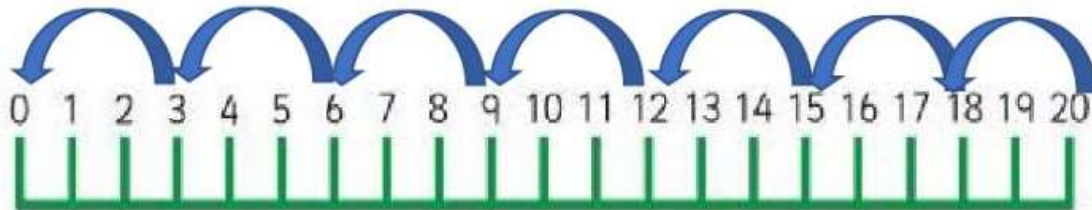
**I. Answer the Following Questions**

1. What is Division?

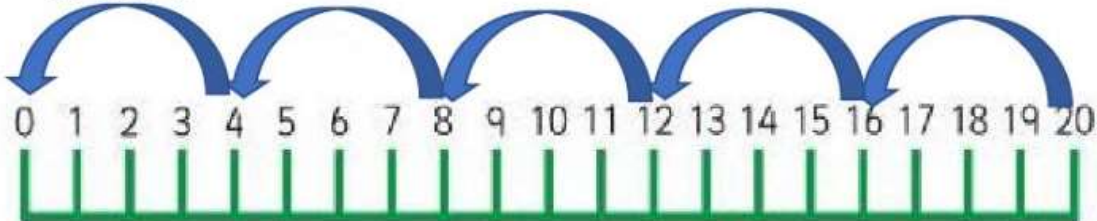
Ans: \_\_\_\_\_  
\_\_\_\_\_

2. Complete the division by counting the necessary hops on the number line

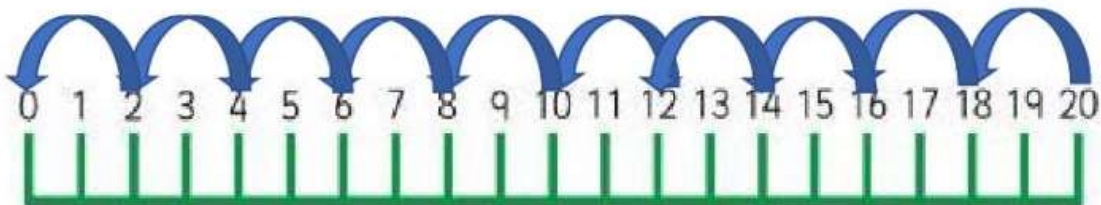
1.  $15 \div 3 =$



2.  $20 \div 4 =$



3.  $16 \div 2 =$



3. Give an example of division as repeated subtraction?

Sol:

4. Give an example of Division of Zero and by Zero?

Sol:

5. Given an example of Division by one and the number itself?

Sol:

6. Solve the Following

(a)  $22 \div 2$

(b)  $225 \div 25$

(c)  $625 \div 125$



### III . Multiple Choice Questions

1. The  $0 \div 1$  is [ ]

- (a) 0 (c) 1  
(b) 11 (d) 00

2. Dividend + Divisor = [ ]

- (a) Sum (c) Remainder  
(b) Subtraction (d) Quotient

3. Is the sign of Division [ ]

- (a) - (c)  $\div$   
(b) x (d) \*

4.  $16 \div 0$  \_\_\_\_\_ [ ]

- (a) Defined (c) Not Defined  
(b) Not-Possible (d) Unsatisfied

5. Dividing by itself equals \_\_\_\_\_ [ ]

- (a) Zero (c) Not Defined  
(b) One (d) Infinity

**DIVISION**

**I. Answer the Following Questions**

1. Is Commutative and Associative Property work for Division? To prove give an example?

Sol:

2. Give an example of Division by 10, 100, 1000 and Zero?

Sol:

3. Divide and Verify  $77 \div 4$

Sol:

4 Give an example of “Checking Division Verification using Multiplication Table”?

Sol:

5 Estimate  $72 \div 9$

Sol:

### **II. Word Problems in Addition**

1. The Annual Income of Shahid is Rs 42,00,00. What is his monthly income if he earns an equal amount every month?

Sol:

2. 860 students were to be seated in 20 rows of an auditorium. If equal number of students sat in each row, how many students were there in each row?

Sol:

3. Plants are sold in trays of 20. If David wants 240 plants ,how many trays does He needs to buy?

Sol:

4. If 9975 kg of wheat is packed in 95 bags, how much wheat will each bag contain?

Sol:

5. Neena needs 5 lemons to make a glass of orange juice. If Nancy has 250 oranges, how many glasses of orange juice can she make?

Sol:

6. A car company manufactured 1674 cars in 31 days of January. If the company manufactured equal number of cars each day, then how many cars were made each day?

Sol:

### III . Multiple Choice Questions

1. The  $0 \times 1$  is [ ]

- (a) 0 (c) 1  
(b) 11 (d) 00

10. The Multiplication of number may be thought of as a repeated [ ]

- (c) Sum (c) Difference  
(d) Subtraction (d) Addition

11. Is the sign of Multiplication [ ]

- (a) - (c) +  
(b) x (d) \*

12. If we multiply 10 by any whole number then we write one zero at the end of \_\_\_\_ [ ]

- (c) Multiplicand (c) factor  
(d) Multiplied (d) Multiples

13. We use rounded number for \_\_\_\_\_ to its nearest tens, hundreds [ ]

- (a) Estimation (c) Zero  
(b) Calculation (d) Simplification

**FACTORS**

**I. Answer the Following Questions**

1. What is a factor? Give an example?

Sol:

2. What are properties of factors?

Sol:

3. What is Factorization? Give an Example?

Sol:

4 What is Factor Tree? Give an Example?

Sol:

5 What is Common Factor? Give an Example?

Sol:

6. What is Prime Number? Give examples?

Sol :

7. What is Composite Number? Give Examples?

Sol :

**8.** What are Co-Prime Numbers? Give Example?

Sol:

**9.** Find Prime Factorization of 72 using Factor Tree Method?

Sol :

**10.** Find Prime Factorization of 36 using Ladder Method?

Sol:

**11.** What is HCF? Give Example?

Sol:

**12.** Find HCF of 36 and 48 using Prime Factorization method?

Sol:



13. Find HCF of 45 and 60 using short Division method?

Sol:

### III . Multiple Choice Questions

1. Every Number is a factor of \_\_\_\_\_ [ ]

- (a) Oneself (c) Itself  
(b) Himself (d) herself

2. Every \_\_\_\_\_ of that number is an exact divisor of Number. [ ]

- (a) multiple (c) Factor  
(b) Product (d) Table

3. \_\_\_ is a factor of Every Number [ ]

- (a) 0 (c) 1  
(b) 10 (d) 100

4. A number is the largest \_\_\_\_\_ of itself [ ]

- (a) Multiplicand (c) factor  
(b) Multiplied (d) Multiples

(c) Number of factors of a number is \_\_\_\_\_ [ ]

- (a) Finite (c) Zero  
(b) Infinite (d) Definite

(d) \_\_\_\_\_ is a diagram used to determine the Prime factors of a natural number greater than one.[ ]

- (a) Multiple tree (c) Table Tree  
(b) Factor Tree (d) Father Tree

(e) The factors of 12 are \_\_\_\_\_ [ ]

- (a) 1 & 12 (c) 12 & 1  
(b) 1,2,3,4,6 & 12 (d) 2,3,4,6 & 12

**MULTIPLES**

**I. Answer the Following Questions**

1. What is a Multiple? Give an example?

Sol:

2. What is Common Multiple? Show Example

Sol:

3. What is Factorization? Give an Example?

Sol:

4 What is Factor Tree? Give an Example?

Sol:

5 What is Common Factor? Give an Example?

Sol:

6. What is Prime Number? Give examples?

Sol :

7. What is Composite Number? Give Examples?

Sol :

8. What are Co-Prime Numbers? Give Example?

Sol:

9. Find Prime Factorization of 72 using Factor Tree Method?

Sol :

10. Find Prime Factorization of 36 using Ladder Method?

Sol:

11. What is HCF? Give Example?

Sol:

12. Find HCF of 36 and 48 using Prime Factorization method?

Sol:

13. Find HCF of 45 and 60 using short Division method?

Sol:

### **III . Multiple Choice Questions**

1. Every Number is a factor of \_\_\_\_\_ [ ]

- (a) Oneself (c) Itself  
(b) Himself (d) herself

2. Every \_\_\_\_\_ of that number is an exact divisor of Number. [ ]

- (c) multiple (c) Factor  
(d) Product (d) Table

3. \_\_\_ is a factor of Every Number [ ]

- (a) 0 (c) 1  
(b) 10 (d) 100

4. A number is the largest \_\_\_\_\_ of itself [ ]

- (f) Multiplicand (c) factor  
(g) Multiplied (d) Multiples

5. Number of factors of a number is \_\_\_\_\_ [ ]

- (a) Finite (c) Zero  
(b) Infinite (d) Definite

6. \_\_\_\_\_ is a diagram used to determine the Prime factors of a natural number greater than one.[ ]

- (a) Multiple tree (c) Table Tree  
(b) Factor Tree (d) Father Tree

7. The factors of 12 are \_\_\_\_\_ [ ]

- (c) 1 & 12 (c) 12 & 1  
(d) 1,2,3,4,6 & 12 (d) 2,3,4,6 & 12

**INTEGERS WITH OPERATIONS**

**I. Answer the Following Questions**

1. What is Integer? And it's types?

Sol:

2. How do you represent Integers on Number line?

Sol:

3. What is the Absolute Value of Integers?

Sol:

4 Solve the Following

(a)  $2 + (-6)$

(b)  $25 + (-32)$

(c)  $482 + (-521)$

(d)  $7 - (-42)$

(e)  $45 - (-35)$

(f)  $965 - (-1000)$

(g)  $-10 \times 25$

(h)  $-15 \times 41 \times -20$

(i)  $-45 \div 3$

(J)  $-26 \div -13$

(k)  $20 \div 5 + 4 \times -2 + 4$  (Solve by BODMAS Rule)

5. Write the Properties of Integers with examples?

## Word Problems Integers

1. You take 6 steps forward and 8 steps backward. How many steps have you taken?

Sol:

2. A computer Stock lost 2 points each hour for 6 hours. Find the total points the stock fell?

Sol:

3. A deep-sea diver descends below the surface of water at a rate of 50 feet each minute. What is the depth of the diver after 10 minutes?

Sol:

4. Suppose the temperature outside is dropping 3 degrees each hour. How much will the temperature drop in 7 hours?

Sol:



5. An airplane takes off and then climbs 2500 feet. After 20 minutes, the airplane descends 150 feet. What is the airplane's current height?

Sol:

### III . Multiple Choice Questions

1. Full form of **BODMAS** is \_\_\_\_\_ [ ]

- (a) Bound Open Division Maths and Statistics      (b) Brackets Open Division Multiplication  
Addition Subtraction      (c) None      (d) a and b

2. **Additive identity** is \_\_\_\_\_ . [ ]

- (a) one      (c) Zero  
(b) Inverse      (d) Table

3. **Multiplicative Identity** is \_\_\_\_\_ [ ]

- (a) Zero      (c) One  
(b) Ten      (d) 100

4. **Absolute Values** are never \_\_\_\_\_ [ ]

- (a) Positive      (c) Negative  
(b) Zero      (d) Multiplies

5. **An Integer is Positive** if it is greater than \_\_\_\_\_ [ ]

- (a) One      (c) Zero  
(b) Two      (d) Six

6. **An integer is negative** if it is less than \_\_\_\_\_ . [ ]

- (a) One      (c) Twelve  
(b) Zero      (d) Seven

7. **|0|** is equal to \_\_\_\_\_ [ ]

- (a) 0      (c) 1  
(b) 2      (d) 3

**I. Answer the Following Questions**

1. Define Fractions? What are its Parts?

Sol:

2. Show one-fourth, one-half, one-third of fractions? Using diagrams?

Sol:

3. Show Fraction on a number line?

Sol:

4 Show the Ways of representing fractions?

Sol:

5. What is equivalent fraction? Give an Example?

Sol:

6. Reduce the following fractions to its lowest terms :

(a)  $\frac{24}{16}$

(b)  $\frac{125}{100}$

7. What are like and unlike functions? Give an Example

8. Given an Example of Proper, Improper, and Mixed Functions? With Example

## Word Problems Integers

9. You take 6 steps forward and 8 steps backward. How many steps have you taken?

Sol:

10. A computer Stock lost 2 points each hour for 6 hours. Find the total points the stock fell?

Sol:

11. A deep-sea diver descends below the surface of water at a rate of 50 feet each minute. What is the depth of the diver after 10 minutes?

Sol:

12. Suppose the temperature outside is dropping 3 degrees each hour. How much will the temperature drop in 7 hours?

Sol:

13. An airplane takes off and then climbs 2500 feet. After 20 minutes, the airplane descends 150 feet. What is the airplane's current height?

Sol:

### III . Multiple Choice Questions

1. Full form of **BODMAS** is \_\_\_\_\_ [ ]

- (a) Bound Open Division Maths and Statistics      (b) Brackets Open Division Multiplication  
Addition Subtraction      (c) None      (d) a and b

8. **Additive identity** is \_\_\_\_\_ . [ ]

- (a) one      (c) Zero  
(b) Inverse      (d) Table

9. **Multiplicative Identity** is \_\_\_\_\_ [ ]

- (a) Zero      (c) One  
(b) Ten      (d) 100

10. **Absolute Values are never** \_\_\_\_\_ [ ]

- (a) Positive      (c) Negative  
(b) Zero      (d) Multiplies

11. **An Integer is Positive if it is greater than** \_\_\_\_\_ [ ]

- (a) One      (c) Zero  
(b) Two      (d) Six

12. **An integer is negative if it is less than** \_\_\_\_\_ . [ ]

- (a) One      (c) Twelve  
(b) Zero      (d) Seven

13. **|0| is equal to** \_\_\_\_\_ [ ]

- (a) 0      (c) 1  
(b) 2      (d) 3

**FRACTIONS**

**I. Answer the Following Questions**

1. Convert the following Improper fractions to Mixed Fractions

(a)  $5/2$

(b)  $8/3$

(c)  $13/4$

2. Converting the following Mixed Fraction to Improper fractions?

(a)  $3 \frac{3}{5}$

(b)  $5 \frac{1}{5}$

(c)  $6 \frac{7}{8}$

3. Compare the following fraction (<, >, =)?

(a)  $5/2$    $6/9$

(b)  $8/3$    $5/2$

(c)  $13/4$    $6/5$

4 Give examples of Fractions using in daily life?

Sol:

5. Solve the following fractions

(a)  $\frac{5}{3} + \frac{9}{3}$

(b)  $\frac{5}{4} + \frac{6}{9}$

(c)  $\frac{8}{4} - \frac{2}{3}$

(d)  $\frac{5}{3} - \frac{2}{3}$

(e)  $\frac{8}{2} - \frac{3}{5}$

(f)  $\frac{4}{5} \times \frac{6}{5}$

(g.)  $\frac{25}{100} \times \frac{5}{10}$

(h)  $\frac{50}{10} \div \frac{25}{100}$

(i)  $\frac{45}{15} \div \frac{225}{15}$

(j)  $\frac{115}{5} \div \frac{25}{75}$



6. What are the properties of Fraction?

7. Simplify  $\frac{1}{3} + \left[ \frac{1}{2} - \left\{ \frac{1}{4} + \left( \frac{1}{3} - \frac{1}{5} \right) \right\} \right]$  using Bodmas?

Sol:

### **WORD PROBLEMS**

1. There are 24 hours in a day and scientists tell us that we should sleep for  $\frac{3}{8}$  of the day. How much time should we spend on sleeping?

Sol:

2. Mr. Sam is 170 cm tall and his brother Tom is  $\frac{7}{8}$  as tall as him. How tall is Tom?

Sol:

3. In a school  $\frac{4}{6}$  of the students are male. Of the male  $\frac{1}{2}$  are handicapped. What fractions of the male students are unhandicapped?

Sol:

4. There was  $\frac{4}{5}$  of a pie left in the fridge .Sarah ate  $\frac{1}{6}$  of the leftover pie. How much of the pie did she have?

Sol:

5. Pam baked some cupcakes for her friends. She baked 24 cupcakes. Each cupcake is  $\frac{1}{10}$  pound. What is the total weight of cupcakes?

Sol:

6. 40 students joined the soccer club.  $\frac{5}{8}$  of the students were boys. How many girls joined the soccer club?

Sol:

### III . Multiple Choice Questions

1. The identity element for fractional addition is \_\_\_\_\_ [ ]  
(a) Zero (b) One (c) None (d) a and b
2. The following properties hold true for fraction Addition and Subtraction \_\_\_\_\_ [ ]  
(a) Commutative and Associative (c) Zero  
(b) Inverse (d) Distributive
3. Multiplicative Inverse of  $\frac{1}{2}$  is \_\_\_\_\_ [ ]  
(a) Zero (c) One  
(b)  $\frac{2}{1}$  (d) 2
4. Addition and Subtraction of Fractions is possible with \_\_\_\_\_ [ ]  
(a) Like fraction (c) Unlike Fraction  
(b) Both A and B (d) None

**DECIMALS**

**I. Answer the Following Questions**

1. Define Decimal Number? What are its Parts?

Sol:

2. Show one-fourth, one-half, one-third of Decimal? Using Diagrams?

Sol:

3. Show Decimal number on a number line?

Sol:

4. Reduce the following Fractions to its lowest terms:

(a) 0.02

(b) 0.003

(c) 0.010

5. What are Like and Unlike Decimals? Give an Example.

6. Convert the following Decimals to Fractions?

(a) 0.2

(b) 0.25

(c) 0.0025

(d) 0.250

7. Convert each of these unlike decimals into like decimals:

(a) 0.1, 3.68, 1

(b) 1.11, 12.754, 92.5, 17

(c) 8.39, 9.236, 24.8, 263.07, 3

7. Convert the following fractions into decimals?

(a)  $12/15$

(b)  $1/1000$

(c)  $5/25$

(d)  $4/20$

### **III . Multiple Choice Questions**

1. In Decimal Number the whole part and Decimal part is divided by \_\_ [ ]

(a) Point      (b) Decimal point      (c) Ten      (d) Zero

2. 0.25 is called \_\_\_\_\_ [ ]

(a) Quarter      (b) Three Quarter  
(c) Half      (d) none.

3. 0.24 the place value of 4 is \_\_\_\_\_ [ ]

(a) Tenth      (c) One  
(b) Hundredth      (d) 1000

4. To convert the fraction to a decimal ,divide the numerator by \_\_\_\_\_ [ ]

(a) Numerator      (c) Negative  
(b) Denominator      (d) Multiplies

5. We write fraction, using decimal number as the numerator and a power of \_\_\_\_ [ ]

(a) Ten      (c) Zero  
(b) Two      (d) Six

**DECIMALS**

**I. Answer the Following Questions**

1. Order 16, 14.95, 15.62, 13, 13.62 from Least to Greatest?

2. Compare the following Decimals (<, >, =)?

(a)  $5.20 \square 5.02$

(b)  $83.1 \square 512.33$

(c)  $11.21 \square 21.11$

3. Give examples of Decimals using in daily life?

Sol:

4. Solve the following Decimals

(a)  $5.23 + 5.455$

(b)  $0.235 + 0.002$

(c)  $514.3 - 2122.3$

(d)  $0.0025 - 0.0023$

(e)  $0.552 - 0.3352$

(f)  $4.25 \times 6.35$

(g.)  $243.15 \times 5.00$

(h)  $0.25 \div 0.5$

(i)  $0.211 \div 0.10$

(j)  $2.22 \div 5.23$

5. Write the expanded form of the following decimal number using the decimals

(a) 14.231

(b) 0.231

(c) 4.521

6. Write the expanded form of the following decimal number using the fractions

(a) 16.231

(b) 12.231

(c) 45.521



### WORD PROBLEMS

1. John bought 9.25m of cloth for Rs 425.50. Find the cost price per metre.

Sol:

2. One kg Basmati rice costs Rs 43.75. Find the cost of 17 kg of rice?

Sol:

3. The product of two numbers is 42.63. If one number is 2.1, find the other?

Sol:

4. Sami weighs 8.6 kg .His older brother is 3 times as heavy. How much does his older brother weigh?

Sol:

5. Ashley found 2 boxes of sugar in the kitchen. The green box is 1.26 kg and the red box is 1.026 kg. Which box contains more sugar?

Sol:

6. A student earns Rs 151.75 per hour for gardening. If she worked 21 hours this month, then how much did she earn?

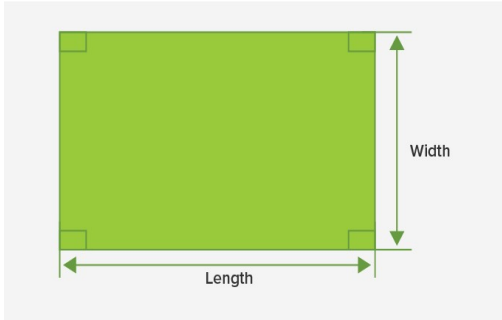
Sol:

**SHAPES**

1. Draw & Define the following Diagrams

**(A)**

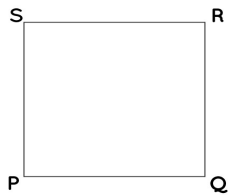
**DRAW**



Sol: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**(B)**

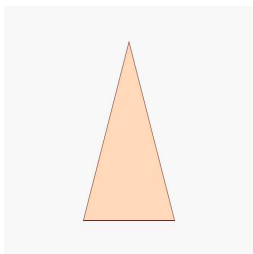
**DRAW**



Sol: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**(C)**

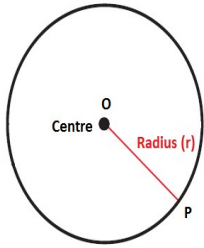
**DRAW**



Sol: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(D)

**DRAW**

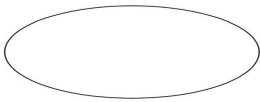


Sol: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(E)

**DRAW**

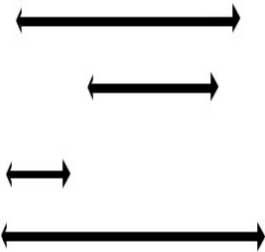
It is an oval.



Sol: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(F)

**DRAW**



Sol: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(G)

**DRAW**

Simple curves



Open simple curve

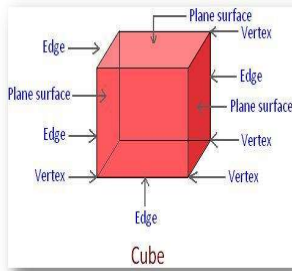


Closed simple curve

Sol: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**(H)**

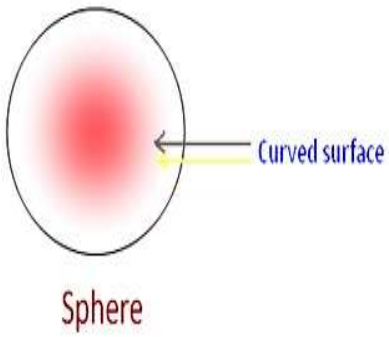
**DRAW**



Sol: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**(I)**

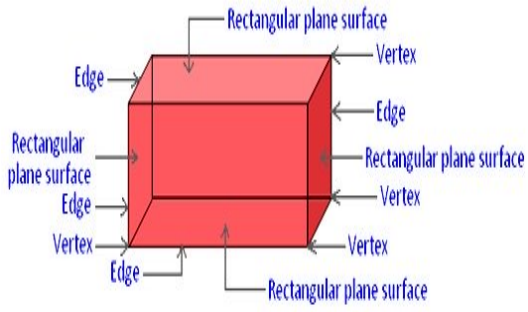
**DRAW**



Sol: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**(J)**

**DRAW**

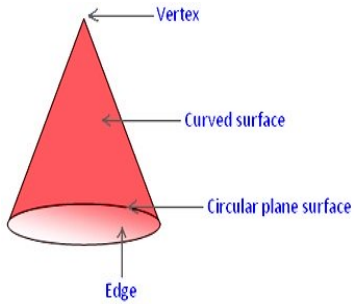


Cuboid

Sol: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

(K)

DRAW

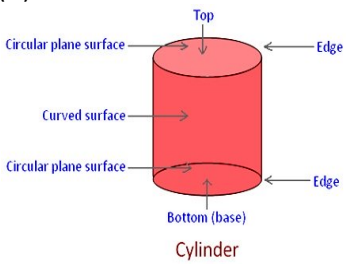


Cone

Sol: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

(H)

Draw



Cylinder

Sol: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**SHAPES**

1. What are Rolling Shapes? Give an Example with drawing?

Sol: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

DRAW

2. What is Sliding Shapes? Give an Example with drawing?

Sol: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

DRAW

3. Describe Horizontal, Vertical and Slanting Lines? Show with Diagrams?

Sol: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

DRAW

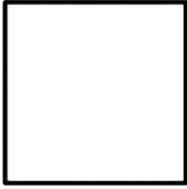
4. Describe feel of Objects with example?

Sol: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

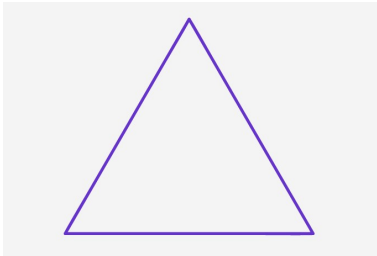
DRAW

5. Describe the following Plane Shapes (Sides and Corners)?

(A)

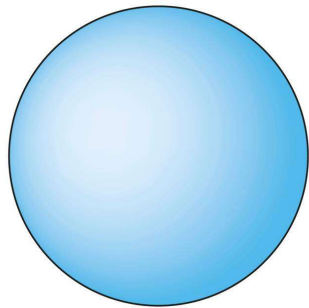


(B)

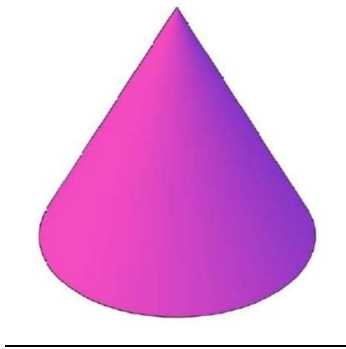


6. Describe and Show (Faces, Edges, Corners, Vertices) of the following SOLID Shapes?

(a) Sphere:

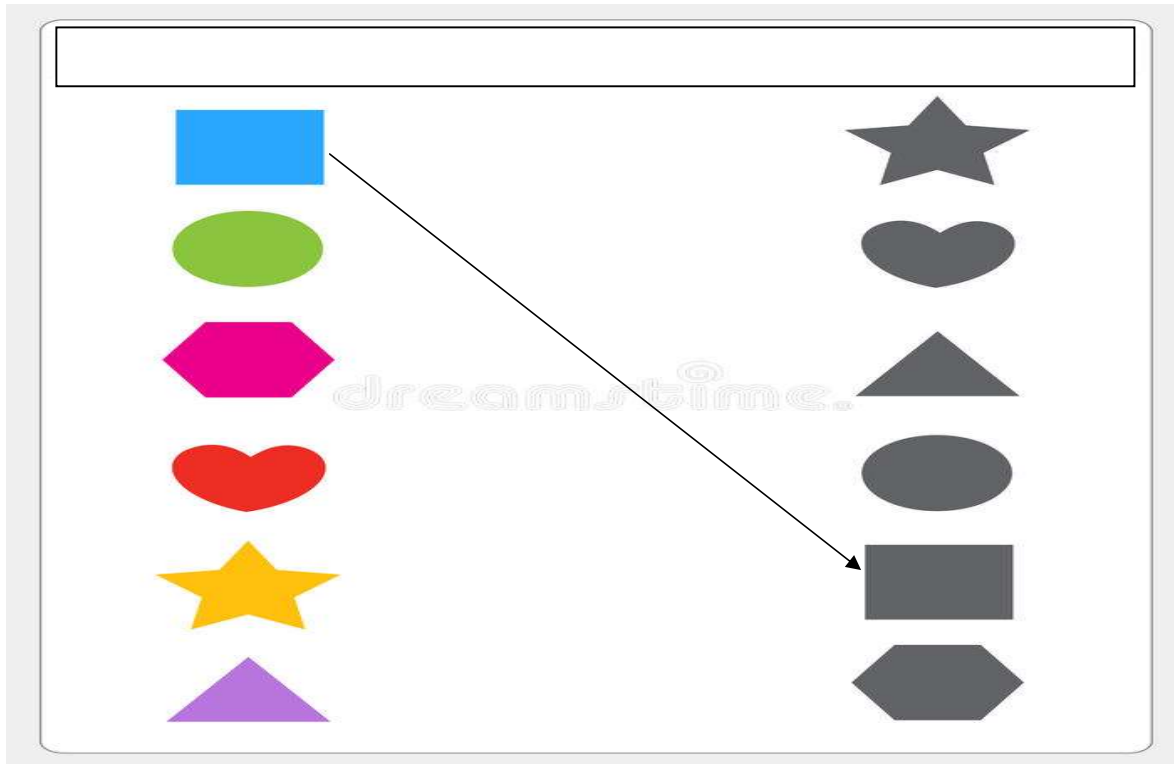


(b) Cone:





7. Draw lines to match each shape to its shadow?



8. What is TANGRAM? Draw its Example?

Sol: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

DRAW

9. What are Polygons? What are its types and draw it?

Sol: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

DRAW

Types of Polygons:

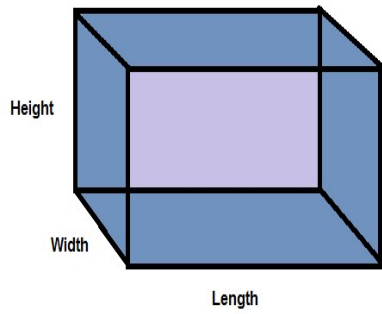
10. What is Net? Draw Nets of following 3D Shapes?

Sol: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(a)

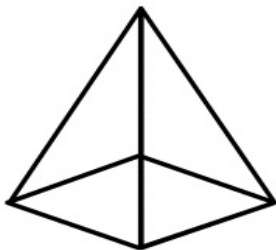
Draw Net of Rectangular Prism

Rectangular Prism



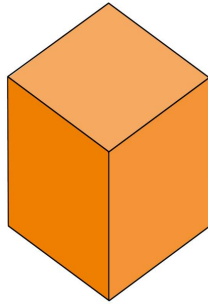
(b) Pyramid

Draw Net of Pyramid



11. Draw Different Views of the following 3D Shapes?

(a) Cube :

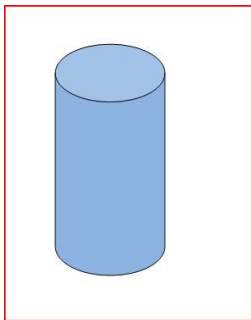


Top View

Side View

Front view

(b) Cylinder:



Top View

Side View

Front view

**MEASUREMENT**

**I. Answer the Following Questions**

**1. Define Measurement? Give an Example?**

Sol: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**2. What are the Non- Standard Units of Length? Given examples?**

Sol: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**3. What are the Standard Units of Length? Given examples?**

Sol: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**4. Solve the following**

(a) Convert 6m to cm

(b) Convert 12 km to m

(c) Convert 2500 m to km

5. Sara used 2m 60cm red ribbon & 5m 28 cm of Blue Ribbon to make a flower. How much Ribbon did she use in all?

Sol:

6. One Box is 49 cm 5mm tall; another Box is 36 cm tall. How much long is the first Box with another Box?

Sol:

7. A rope is 72cm long. It is cut into 8 pieces to make 8 triangles. What is total length of each piece?

Sol:

8. Shivani measured 8m of Fabric to make a window curtains. How much fabric does she need to buy if her house has 7 same size windows?


Sol:


9. Draw Conversion Chart of Length Measurement?


Sol:

Kilometre	Hectometre	Decametre	Meter	Decimetre	Centimetre	Millimetre


10. Select the unit of length that best represents the measurement of each of the following object?


1)  2km    2mm    10cm

2)  20cm    10mm    2m

3)  5cm    1km    5mm

4)  5m    2mm    5cm

5)  3km    3m    30mm

6)  4cm    4mm    4m

### **III . Multiple Choice Questions**

1. \_\_\_\_\_ is the collection of information in numeric form [ ]  
(a) Measurement (c) Estimation  
(b) Collection (d) Format
2. To compare Lengths the objects must start at \_\_\_\_\_ Places [ ]  
(a) Different (c) Same  
(b) Usual (d) Unusual
3. Which is the example of non-standard units of length [ ]  
(a) Hand Span (c) Centimetre  
(b) Meter (d) Kilometre
4. The Meter is base unit of length in the \_\_\_\_\_ metric system [ ]  
(a) International (c) National  
(b) Seasonal (d) Metric System
5. Converting 887 centimetres to meters gives [ ]  
(a) 8870 m (c) 88.7 m  
(b) 8.87 m (d) 870.0 m

**MEASUREMENT**

1. What are the standard units of weight? Give an Example?

Sol:

2. Sachin purchased 8 kg 200 g of sugar, 10kg 395 g of rice. What is the total weight which Sachin carried?

Sol:

3. The total weight of Sania's bag is 55 kg 750 g and Alia's bag is 48 kg 950 g, whose bag is heavier and by how much?

Sol:

4. How much heavier are the 9 toffee packets, if one toffee packet weighs 7 kg 200 g?

Sol



5. 875 grams of sweets were distributed among 9 children. How much sweet was given to each child?













Sol:

6. Draw Conversion of Weight measurement table?

Milligram
Centigram
Decigram
Gram
Decagram
Hectogram
Kilogram

7. Solve the following

Choose the suitable unit:

 gram / kilogram	 gram / kilogram	 gram / kilogram
 gram / kilogram	 gram / kilogram	 gram / kilogram
 gram / kilogram	 gram / kilogram	 gram / kilogram
 gram / kilogram	 gram / kilogram	 gram / kilogram

### **III . Multiple Choice Questions**

1. The most common use of measurement for mass are \_\_\_\_\_ [   ]
- (a) Grams & Kilograms      (c) Centimetres  
(b) litres                      (d) Meters
2. 1000 gm is approximately \_\_\_\_\_ [   ]
- (a) 1 Kg                              (c) Same  
(b) 1000mg                      (d) None
3. 25 g is equal to \_\_\_\_\_ [   ]
- (a) 0.0025 kg                      (c) 0025 kg  
(b) 0.025 kg                      (d) 00025kg
4. To measure the weight of pencil and book we use \_\_\_\_\_ [   ]
- (a) Weight Balance              (c) Balance Pan  
(b) Balance System              (d ) Metric System
5. In Weight Balance two scale pans must have same \_\_\_\_\_ [   ]
- (a) weight                              (c) Points  
(b) height                              (d) system

**I. Answer the Following Questions**

1. Define Standard units of Capacity?

Sol: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

2. Convert the following into millilitres?

(a) 600 Litres

(b) 780 Litres

(c) 840 Litres

(d) 870 Litres

2. Convert the following into Litres?

(a) 6.80 ml

(b) 7.62 ml

(c) 8.90 ml

(d) 8.76 ml

3. Akash purchased 11 L 500 ml of Petrol for his bike and 38 L 300ml of Petrol for his Car. How much petrol did he buy in all?

Sol:

4. The Milk Man Delivered 38 liters 250 ml of milk to a Hotel. 16 L and 200 ml of Milk is used to prepare tea. How much milk is left?

Sol:

5. 2L of cooking oil required for making 1 Kg Jalebi? How much cooking Oil is required for making 16 kg Jalebi?

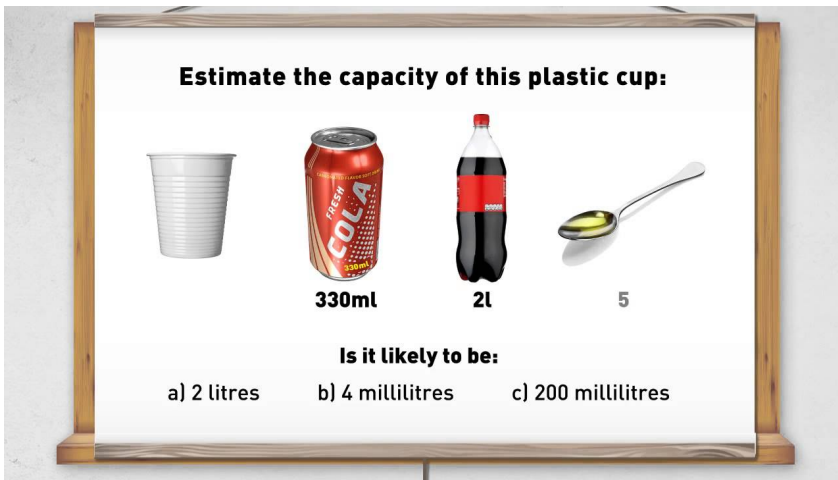
Sol:

6. Draw Conversion Chart of Capacity Measurement?

Sol:

Kilolitre	Hectolitre	Decilitre	Litre	Decilitre	Centilitre	Millilitre

7. Estimate the Capacity of the given cup in diagram



### III . Multiple Choice Questions

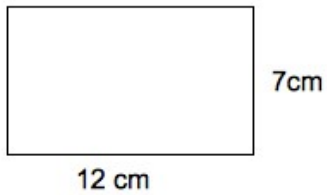
1. Infant milk bottle with measurement markings in \_\_\_\_\_ [ ]  
 (a) Millilitre                      (c) Centimetres  
 (b) Litres                              (d) Meters
2. We Measure Capacity of water in CUP as \_\_\_\_\_ [ ]  
 (a) 1 Kg                              (c) Kiloliter  
 (b) Millilitre                      (d) None
3. We measure Tank water as \_\_\_\_\_ [ ]  
 (a)Galoons                          (c) Liters  
 (b) Kiloliters                      (d) 00025kg
4. We measure milk and oil in as \_\_\_\_\_ [ ]  
 (a) Kilogram                      (c) Kiloliter  
 (b) Balance System              (d ) Metric System
5. One decaliter is equal to \_\_\_\_\_ [ ]  
 (a) 100 Liter                      (c) 10 Liter  
 (b) 20 Liter                        (d) 1 Liter

**I. Answer the Following Questions**

1. Define Perimeter?

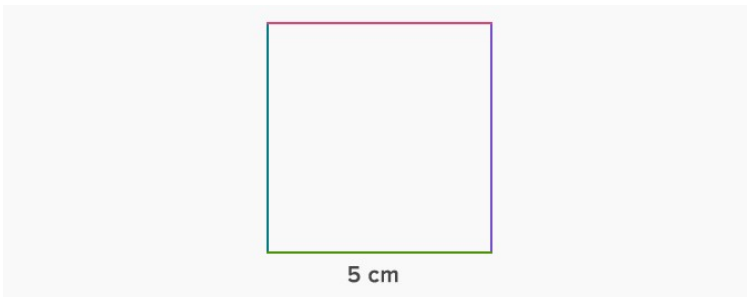
Sol: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

2. Find the Perimeter of the following Rectangle?



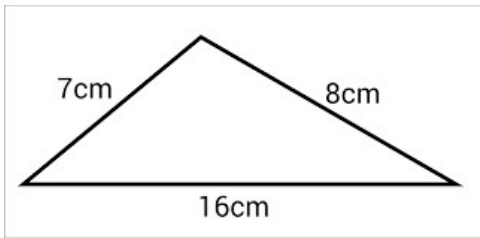
Sol:

3. Find the Perimeter of the following Square?



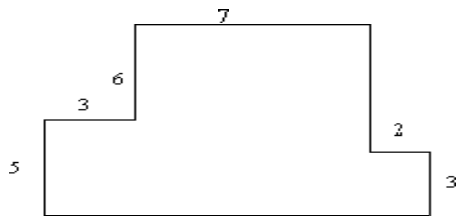
Sol

4. Find the Perimeter of the following Triangle?



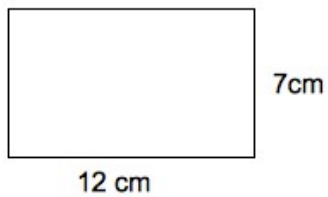
Sol:

5. Find the Perimeter of the following Curved Figure?



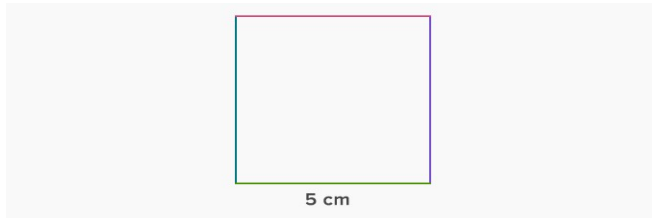
Sol:

6. Find the Area of the following Rectangle?



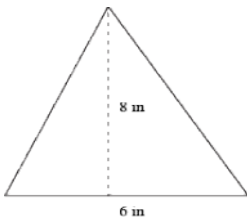
Sol:

7. Find the Perimeter of the following Square?



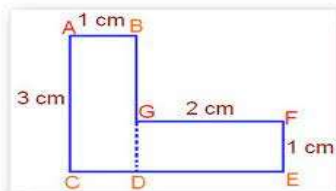
Sol

8. Find the Perimeter of the following Triangle?



Sol:

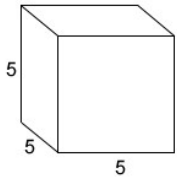
9. Find the Perimeter of the following Curved Figure?



Sol:

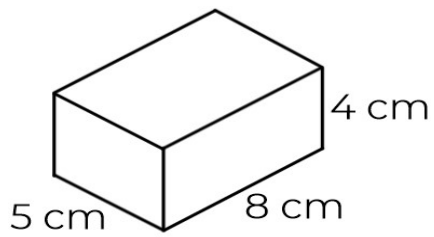


10. Find the Volume of Cube?



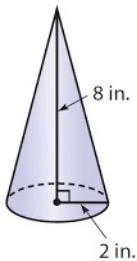
Sol:

11. Find the Volume of Cuboid?



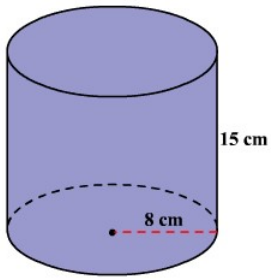
Sol:

12. Find the Volume of Cone?



Sol:

13. Find the Volume of Cylinder?

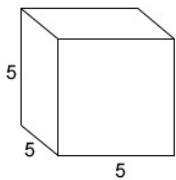


Sol:

14. Define Surface Area? And it's Types?

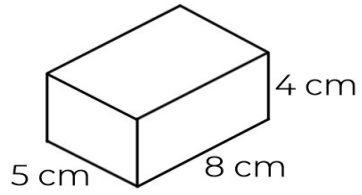
Sol: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

15. Find Surface Area of Cube?



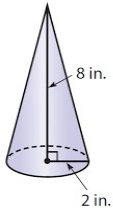
Sol:

16. Find the Surface Area of Cuboid?



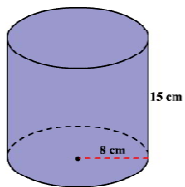
Sol:

17. Find the Surface Area of Cone?



Sol:

18. Find the Surface Area of Cylinder?



Sol:

### III . Multiple Choice Questions

1. Perimeter of Rectangle is \_\_\_\_\_ [ ]

- (a)  $2(l-b)$  (c)  $2(l+b)$   
(b)  $2l+2b$  (d) Both c and b

2. Perimeter of a shape is the distance \_\_\_\_\_ the Shape [ ]

- (a) Across (c) around  
(b) Beside (d) in front

3.  $\pi$  has the value of \_\_\_\_\_ [ ]

- (a)  $22/7$  (c) 3.14  
(b)  $33/2$  (d) both a and c

4. Surface Area referred to the area of the \_\_\_\_\_ [ ]

- (a) Imposed Surface (c) Exposed Surface  
(b) Inner Surface (d) Outer Surface

5. In General Lateral Surface Area does not include \_\_\_\_\_ [ ]

- (a) Height (c) width  
(b) Base (d) Length

6. Lateral Surface Area does not include the area of \_\_\_\_\_ [ ]

- (a) Sides (c) Top and Bottom  
(b) Base (d) Length

**TIME**

1. Define Time and its Terminology?

Sol:

2. Show Time using Number Line?

Sol:

3. Draw Time (Half Past, Quarter Past, Quarter to)?

Sol:

4. Define AM and PM using Diagram?

Sol:

5. Write names of Seven days of the week?

Sol:

6. Write Names of months in a year?

Sol:

7. What is leap year? How to identify the leap year show using flowchart?

Sol:

8. Name the Seasons of the year and their periods /months?

Sol:

9. I wake up at 7:30 AM. It takes me 40 minutes to get ready for school; at what time am I ready for School?

Sol:

### **III . Multiple Choice Questions**

1. We use little hand of watch to read the \_\_\_\_\_ [ ]

- (a) Time (c) hour  
(b) Minutes (d) seconds

2. We use big hand to read the [ ]

- (a) Time (c) hour  
(b) Minutes (d) seconds

3. Half past of 1:00 Pm is \_\_\_\_\_ [ ]

- (a) 2:00 Pm (c) 1:30 Am  
(b) 1:00 Am (d) 1:30 Pm

4. A year which contains 366 days is called \_\_\_\_\_ [ ]

- (a) Leap year (c) flop year  
(b) Light year (d) flight year

5. By reading a calendar we can know about the current year, month, week and \_\_\_\_\_ [ ]

- (a) Minutes (c) Day  
(b) Weak (d) Length

7. \_\_\_\_\_ is an example of social media platform [ ]

- (a) Notebook (c) face book  
(b) Ledger book (d) yearbook

8. A \_\_\_\_\_ clock uses only numerals to show the time [ ]

- (a) Analog (c) Digital  
(b) Computer (d) Smart

**MONEY**

1. Define Money and its terminology?

Sol:

2.

Use  $>$ ,  $<$  in the box.



3. Jaspreet purchased 7 kg of sugar for Rs 280.50 Ps, and 9 kg of rice for Rs 630.00 ps. What is the total amount of Rupees he spends?

Sol:



4. Sunil purchased Stationary box of Rs 149.50 ps, he has given 50 Rs to Shop owner. How much money left with Sunil?

Sol:

5. If the cost of one Bicycle is RS 3500, then what is the cost of 25 bicycles?

Sol:

6. 875 grams of sweets were distributed among 9 children. How much sweet was given to each child?

Sol:

### **III . Multiple Choice Questions**

1. Money is acceptable as a means of \_\_\_\_\_ [ ]

- (a) Time (c) hour  
(b) Payment (d) Discount

2. Money is a medium of \_\_\_\_\_ [ ]

- (a) Change (c) hour  
(b) Rupees (d) seconds

3. Half past of 1:00 Pm is \_\_\_\_\_ [ ]

- (a) 2:00 Pm  
(b) 1:00 Am

- (c) 1:30 Am  
(d) 1:30 Pm

4. A year which contains 366 days is called \_\_\_\_\_ [ ]

- (a) Leap year  
(b) Light year

- (c) flop year  
(d) flight year

5. By reading a calendar we can know about the current year, month, week and \_\_\_\_\_ [ ]

- (a) Minutes  
(b) Weak

- (c) Day  
(d) Length

9. \_\_\_\_\_ is an example of social media platform [ ]

- (a) Notebook  
(b) Ledger book

- (c) face book  
(d) yearbook

10. A \_\_\_\_\_ clock uses only numerals to show the time [ ]

- (a) Analog  
(b) Computer

- (c) Digital  
(d) Smart

**BASIC GEOMETRY**

1. Define line and its types? With Diagram?

Sol:

2. What are the instruments do you find in your Geometric Box ?

Sol:

3. How do you construct a Parallel line? Write the steps?

Sol:

4. Construct a Circle of radius 4 cm? Write construction steps?  
Sol:

5. Construct a Square of side 4 cm? Write construction steps?  
Sol:

6. Construct a Hexagon using Geometry Box? Write Construction steps?

7. Draw ( Front view, side view and Top View )  
(a) Cone                      (b) Cube

### **III . Multiple Choice Questions**

1. A Ray has \_\_\_\_ end point. [ ]

- (a) One (c) Two  
(b) Three (d) Four

2. A cuboid has \_\_\_\_\_ faces [ ]

- (a) Six (c) Seven  
(b) Eight (d) Ten

3. Each face of cuboid is \_\_\_\_\_ [ ]

- (a) Oval (c) Angle  
(b) Square (d) Rectangle

4. Surface area of a cube \_\_\_\_\_ [ ]

- (a)  $6a^2$  (c)  $8a^2$   
(b)  $5a^2$  (d)  $10a^2$

5. The value of  $\pi$  is \_\_\_\_\_ [ ]

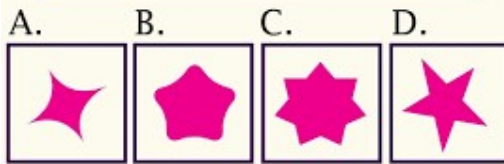
- (a)  $33/7$  (c)  $22/7$   
(b)  $11/7$  (d)  $52/7$

6. The surface Area of a cone is \_\_\_\_\_ [ ]

- (a)  $\pi r^2 + \pi rs$  (c)  $\pi r^4 + \pi rs$   
(b)  $\pi r^3 + \pi rs$  (d)  $\pi r^2 + \pi s$

### PATTERN

1. What comes next?



2. Which comes next?

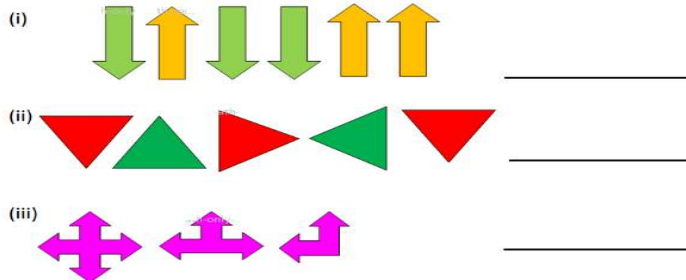
Which number comes next?

2	4	6	8	10	12	
3	6	9	12	15	18	
5	10	15	20	25	30	
10	20	30	40	50	60	



3.

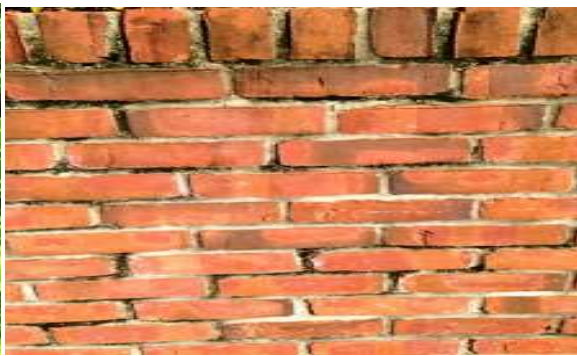
1. Complete the series by drawing the next 3 figures of the pattern.



4. Find the Missing number in this Pattern?

3	6		12		18
64	67		73		79
40		46	49		55
22	25	28		34	
119	122			131	134
390	393	396			405

5. Which is the Man made pattern or natural pattern?



6. Draw the pattern accordingly?

a)

b)

c)

d)

On  $\frac{1}{4}$  turn



On half turn



7. Make a list of Types of Pattern with Diagram?

Sol :

### **III . Multiple Choice Questions**

1. 12, 4, 6, 8, 10, 12, 14, 16 ...are sequential \_\_ numbers [ ]

- (a) Odd (c) Prime  
(b) Even (d) composite

2. 1, 3, 5, 7, 9, 11, 13, 15 ... are sequential \_\_\_\_\_ numbers [ ]

- (a) Even (c) Prime  
(b) Odd (d) composite

3. Tessellations can also be made from more than one \_\_\_\_\_ [ ]

- (a) Size (c) shape  
(b) Square (d) Rectangle

4. There are only \_\_\_\_\_ regular tessellations [ ]

- (a) Four (c) Four  
(b) Two (d) Three

5. Example of Natural Pattern is \_\_\_\_\_ [ ]

- (a) Leaves (c) Bricks  
(b) 11111 (d) Tiles



**PATTERN**

1. Define Symmetry and Line of Symmetry? Draw figures?  
Sol:

2. Define Vertical and Horizontal Line of Symmetry? Draw Figures?  
Sol:

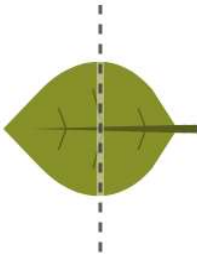
3. Define Diagonal Line of Symmetry? Draw figure?  
Sol:

4. Define one line of Symmetry and Two line of Symmetry? Draw Figures?

Sol:

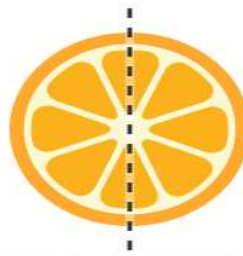
5. Identify the line of symmetry?

Is the dotted line a line of symmetry?



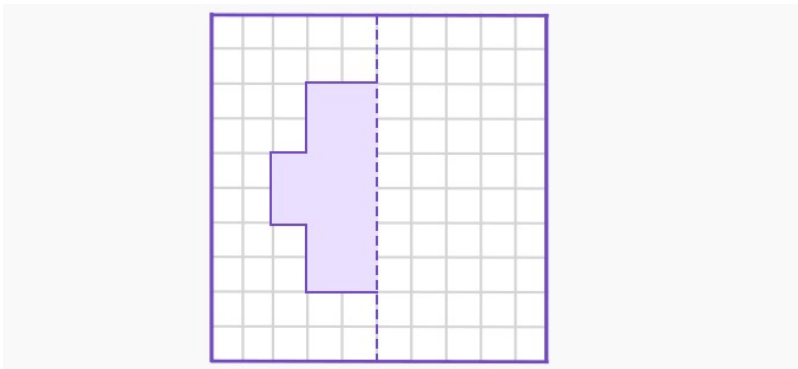
yes  no

Is the dotted line a line of symmetry?



yes  no

6. Complete the Below Picture?



7. Define Rotational and Translation Symmetry? Draw Figures?

### **III . Multiple Choice Questions**

1. In a Glide reflection the translation is first performed on figure then it is reflected over a \_\_\_\_\_ [    ]

- (a) Point    (c) angle
- (b) Line    (d) Ray

2. Reflection Symmetry is also known as \_\_\_\_\_ [    ]

- (a) Mirror symmetry    (c) Two Line symmetry
- (b) One Line Symmetry    (d) Translation symmetry

3. \_\_\_\_\_ Symmetry is a line that runs down vertically [    ]

- (a) Horizontal Line symmetry    (c) Mirror Symmetry
- (b) Diagonal Line symmetry    (d) Verticle Line Symmetry

4. Infinite line passing through the center and the figure is still symmetrical is \_\_\_\_\_ [    ]

- (a) Triangle    (c) circle
- (b) Rectangle    (d) Square

5. A \_\_\_\_\_ Line of symmetry divides a shape into two identical halves is [    ]

- (a) Circle    (c) Line
- (b) Diagonal    (d) Translation

**ALGEBRA**

1. Define Algebra and its Terminology ?

Sol:

2. Give an example of Algebraic Expression?

Sol:

3. Give an example of like and Unlike Terms?

Sol:

4. Define Monomial, Binomial and Trinomial Expressions with examples?

Sol:

5. Write the coefficient, Variable and Power of Algebraic Terms  $3x^2+5x+6$  ?

Sol:

6. Find the Degree of the following polynomials?

(a)  $7x^2+3x$

(b)  $3x^4+5x+1$

(c)  $2x^5+7x^3$

7. Evaluate the following expressions for the given value of x

(a)  $4X-5$  for  $X=2$

(b)  $8X^2+16X+16$  for  $X=3$

(c)  $5X-2$  for  $X=4$

### **III . Multiple Choice Questions**

1. Algebra is a type of mathematics that uses \_\_\_\_\_ to represent numbers [ ]

(a) Alphabets

(c) Symbols

(b) Letters

(d) Numbers

2. What is the Coefficient of x in  $5x^2+6x+6$  \_\_\_\_\_ [ ]

(a) 5

(c) 6

(b) 1

(d) 2

3. Find the variable in the expression  $5x+4y+10$  \_\_\_\_\_ [ ]

(a) x

(c) y

(b) x and y

(d) only y

4. Find the Constant in the expression  $5x+7=\sqrt{2}$  \_\_\_\_\_ [ ]

(a) 5

(c) 2

(b) 7

(d)  $\sqrt{2}$

5. In Trinomial the number of terms are \_\_\_\_\_ [ ]

(a) 2

(c) 0

(b) 1

(d) 3

**ALGEBRA**

1. Add (a)  $5x^2+6x+7y$ ;  $4x^2+8x+9y$  (b)  $5y^2+6x+6$ ;  $6y^2+10x+9$ ;  $10y^2+100x+20$

2. Multiply (a)  $6x, 7y$  (b)  $7x^2, 8z$  (c)  $8x, 7yz, 15z$

3. What is an Algebraic Equation? Give an Example?  
Sol:

4. Solve the following the Algebraic Equations?  
(a)  $X+4=5$  (b)  $5-X=10$  (c)  $6x+5=2$

5. Solve the given equations using Trial and Error method?  
(a)  $3x-18=3$  (b)  $5y-2=3$

6. Write the Algebraic Equations of the following statements?  
 (a) Three times the number  $x$  is equal to 10 \_\_\_\_\_  
 (b) 6 times  $y$  subtracted from 9 equals to 36 \_\_\_\_\_
7. Write the following Algebraic Equations into statements?  
 (a)  $6x-5=10$  : \_\_\_\_\_  
 (b)  $56+4x=0$  : \_\_\_\_\_
8. Solve the equation  $x-5=4$  using the Principal of Balance method?  
 Sol:

### III . Multiple Choice Questions

1. Algebra is a type of mathematics that uses \_\_\_\_\_ to represent numbers [ ]  
 (a) Alphabets (c) Symbols  
 (b) Letters (d) Numbers
2. What is the Coefficient of  $x$  in  $5x^2+6x+ 6$  \_\_\_\_\_ [ ]  
 (a) 5 (c) 6  
 (b) 1 (d) 2
3. Find the variable in the expression  $5x+4y=10$  \_\_\_\_\_ [ ]  
 (a)  $x$  (c)  $y$   
 (b)  $x$  and  $y$  (d) only  $y$
4. Find the Constant in the expression  $5x+7= \sqrt{2}$  \_\_\_\_\_ [ ]  
 (a) 5 (c) 2  
 (b) 7 (d)  $\sqrt{2}$
5.  $7mn$  is a \_\_\_\_\_ [ ]  
 (a) Binomial (c) Monomial  
 (b) Trinomial (d) Nanomial

**ALGEBRA**

1. Solve  $5x - m + 4 = 2m + 2x + 9$  using Transposing Method?

2. Determine whether 2 and 3 are roots of the equation  $15 = x^2 + 2x$ ?

3. Mohsin is 10 years elder than Sajid. Five years ago mohsin was 3 times as old as Sajid .Then Mohsin's present age will be?

4. Subtract  $3X^2 + 4X + 16 - (2X^2 - 2X - 8)$

5. Solve the following

(a)  $(4x - 3)(5x^2 - 2x + 1)$

(b)  $7x^2 + 35x + 24 \div (x + 4)$



6. Draw a Graph of linear equation  $2x+y = 6$ ?

7. Define Zero of a Polynomial?

8. Examine whether  $x + 2$  is a factor of  $x^3 + 3x^2 + 5x + 6$ .

### **III . Multiple Choice Questions**

1. If  $p(x)$  is a polynomial of degree  $n >$  [ ]  
(a) 0 (c) 2  
(b) 3 (d) 1

2. If  $p(a) = 0$  then  $x-a$  is a = \_\_\_\_\_ [ ]  
(a) Factor (c) Solution  
(b) Multiple (d) Zero

3. If a polynomial  $P(x)$  is divided by factor  $x-a$ , the remainder obtained is \_\_\_\_\_ [ ]  
(a)  $P(a)$  (c)  $P(1)$   
(b)  $P(x-a)$  (d)  $P(x)$

4. Roots of the equation are such values of the variable that turn equation into correct \_\_\_\_\_ [ ]  
(a) Inequality (c) Equality  
(b) One (d) **Zero**

5.  $P(x) = x-1$  at  $x=1$  then  $P(1)$  \_\_\_\_\_ [ ]  
(a) 0 (c) 2  
(b) 1 (d) 3

1. Define Ratios? And it's Terminology?

2. What are the Properties of Ratio?

3. Write Ratio form of the following diagram?



4. What is Equivalent Ratio? What is the Equivalent ratio of 2:3?

Sol:

5. Write the ratios in simplest form and compare it 4: 8 AND 4: 16?

Sol:

6. Increase and decrease 56 in ratio 7:8?

Sol

7. Divide 560 Kg in the ratio 3:4?

8. The boys and the girls in the school are in the ratio 7:5 .If total length of the school be 500. Find the number of girls and boys?

### **III . Multiple Choice Questions**

1. Ratios are the comparison between the \_\_\_\_\_ of two things [   ]

- (a) Entity (c) Quantities  
(b) Proportions (d) Surfaces

2. The Equivalent ratio of 6:8 is \_\_\_\_\_ [   ]

- (a) 18/24 (c) 8:6  
(b) 24/18 (d) 1:0

3. Ratios can be written in \_\_\_\_\_ form [   ]

- (a) Divisional form (c) Popular form  
(b) Complex form (d) simplest form

4. A \_\_\_\_\_ Is a comparison of two numbers by division [   ]

- (a) Ratio (c) Equality  
(b) Entity (d) **Proportion**

5. We can write 3:2 as \_\_\_\_\_ [   ]

- (a) 2/3 (c) 3/2  
(b) 5/2 (d) 3/5

**RATIO AND PROPORTION**

1. Define Proportion and its Terminology ?

Sol:

2. Define Continued Proportion?

Sol:

3. Define Mean proportion? Find mean Proportion between 9 and 16?

Sol:

4. Define Third proportion? Find the third proportion to 15 and 20?

Sol:

5. Define Unitary Method? The Cost of 8kg of Rice is Rs 104.What is the cost of 6 Kg of Rice?

Sol :

6. What is inverse proportion? Give an example?

Sol:

### **III . Multiple Choice Questions**

1. \_\_\_\_\_ Proportion is when one quantity increases the other decreases at the same rate [ ]

- (a) Reverse (c) Direct  
(b) Inverse (d) Surfaces

2. The Unitary method focuses on \_\_\_\_\_ [ ]

- (a) Solution (c)Unit  
(b) Method (d) Tens

3. If  $a : b = c : d$  , then c is called the \_\_\_\_\_proportional [ ]

- (a) fourth proportion (c) first proportion  
(b) Second proportion (d) third proportion

4. Product of extremes = \_\_\_\_\_ [ ]

- (a) Product of means (c) Subtract of extremes  
(b) Entity (d) Product of seams

5. Speed is inversely proportional to \_\_\_\_\_ [ ]

- (a) Road (c) Acceleration  
(b) Time (d) meter

**PERCENTAGE**

1. Define Percentage and its terminology?

Sol:

2. How to convert fractions into Percentage? Give an example?

Sol:

3. How to convert Decimals into percentage? Give an example?

Sol:

4. How to convert a Ratio into Percentage? Give an Example?

Sol:

5. Sahil scored 23 out of 30 in English and 36 out of 40 in Maths .By finding the percentage score for each, which is the best subject?

Sol:

### **III . Multiple Choice Questions**

1. We use \_\_\_\_\_ symbol for percent [ ]

- (a) \$ (c) %  
(b) @ (d) !

2. The Unitary method focuses on \_\_\_\_\_ [ ]

- (a) Solution (c) Unit  
(b) Method (d) Tens

3. If  $a : b = c : d$ , then  $c$  is called the \_\_\_\_\_ proportional. [ ]

- (a) Fourth proportion (c) first proportion  
(b) Second proportion (d) third proportion

4. Product of extremes = \_\_\_\_\_ [ ]

- (a) Product of means (c) Subtract of extremes  
(b) Entity (d) Product of seams

5. Speed is inversely proportional to \_\_\_\_\_ [ ]

- (a) Road (c) Acceleration  
(b) Time (d) meter

**PERCENTAGE**

1. Convert 28% into Decimal and Fraction?

Sol:

2. Convert 35 % into Ratio?

Sol:

3. Write 42 as a percentage of 75?

Sol:

4. 12 is 40% of what number?

Sol

5. A school team won 6 games this year against 4 games won last year. What is the percent increase?

Sol:



6. The number of illiterate person in a country decreased from 150 lakhs to 100 lakhs in 10 years. What is the percentage of decrease?

Sol:

7. What is 8% of 868 and 10 % of 32?

Sol:

8. Define Cost Price and Selling Price?

Sol:

9. What is overhead Prices?

### III . Multiple Choice Questions

1. Profit if \_\_\_\_\_ [ ]

- (a)  $SP > CP$  (c) %  
(b)  $CP > SP$  (d) LOSS

2. Loss if \_\_\_\_\_ [ ]

- (a)  $CP > SP$  (c) Unit  
(b)  $SP > CP$  (d) Tens

3. Part/Whole x 100 = \_\_\_\_\_ [ ]

- (a) \$ (c) %  
(b) @ (d) #

4. Ratio of 35 % is = \_\_\_\_\_ [ ]

- (a) 20:7 (c) 7:20  
(b) 200 :7 (d) 7:200

5. Convert 28 % into fraction as \_\_\_\_\_ [ ]

- (a)  $25/7$  (c)  $25:7$   
(b)  $7/25$  (d)  $7:25$

**PERCENTAGE**

1. Define Simple Interest?

Sol:

2. Define Compound Interest?

Sol:

3. Difference between Simple Interest and Compound Interest?

Sol:

4. Define Conversion Period with example?

Sol:

5. A 2 year loan of Rs 500 is made with 2 % interest .Find the interest earned ?

Sol:

6. Define Appreciation and Depreciation?

Sol:

7. Define discount and discount percent?

Sol:

8. What is Tax and its types?

Sol:

9. What is Income Tax?

Sol:

10. Define VAT (Value Added Tax) and it's Advantageous and Disadvantageous?

Sol:

### III . Multiple Choice Questions

1. Amount =Principle+ \_\_\_\_\_ [ ]  
(a) Simple interest (c) Compound Interest  
(b) Loss (d) Profit

2. Compound Interest can be thought as “Interest \_\_\_\_\_ [ ]  
(a) in interest (c) under interest  
(b) Below interest (d) on interest

3. Simple interest is \_\_\_\_\_ than Compound interest [ ]  
(a) Bigger (c) Higher  
(b) Smaller (d) Lower

4. In Simple Interest, Interest for all years is \_\_\_\_\_ [ ]  
(a) Different (c) Same  
(b) Discount (d) connected

5. Appreciation is going \_\_\_\_\_ in value [ ]  
(a) Near (c) down  
(b) Beside (d) Up

6. Discount = List Price - \_\_\_\_\_ [ ]  
(a) Cost Price (c) Label Price  
(b) Selling Price (d) Discount Price

7. Direct taxes are paid directly to the \_\_\_\_\_ [ ]  
(a) Factories (c) society  
(b) citizens (d) Government

8 Service tax is applicable to whole of India except \_\_\_\_\_ [ ]  
(a) Jammu & Kashmir (c) society  
(b) citizens (d) Government

1. Define Vertex and Angle?

Sol:

2. What are the types of angles show with diagrams?

Sol:

3. What are complementary and supplementary angles show with diagram ?

Sol:

4. What are Adjacent and Vertically opposite angles? Show with diagram?

Sol:

5. Define Linear Pair of angles? Show with diagram?

Sol:

6. What is a Transversal of Parallel line? Show with Diagram?

Sol:

7. Construct a  $60^\circ$  angle using Compass?

Sol:

### **III . Multiple Choice Questions**

1. Two rays that share the same end point form an \_\_\_\_\_ [ ]

- (a) Ray (c) Angle  
(b) Line (d) Vertex

2. The point where the rays intersect is called \_\_\_\_\_ [ ]

- (a) Angle (c) Ray  
(b) Vertex (d) Line

3. Acute angle is less than \_\_\_\_\_ [ ]

- (a)  $50^\circ$  (c)  $360^\circ$   
(b)  $90^\circ$  (d)  $180^\circ$

4. Full angle is \_\_\_\_\_ [ ]

- (a)  $0^\circ$  (c)  $180^\circ$   
(b)  $90^\circ$  (d)  $360^\circ$

5. Complementary angles add to \_\_\_\_\_ [ ]

- (a)  $90^\circ$  (c)  $45^\circ$   
(b)  $0^\circ$  (d)  $360^\circ$

6. Supplementary angles add to \_\_\_\_\_ [ ]

- (a)  $90^\circ$  (c)  $180^\circ$   
(b)  $360^\circ$  (d)  $100^\circ$

7. A transversal is a line that crosses other \_\_\_\_\_ [ ]

- (a) Stations (c) Points  
(b) Lines (d) rays

1. Construct an angle  $40^\circ$  using Protractor and write its steps?

Sol:

2. Define angle bisector? Show with diagram?

Sol:

3. How to divide angles using compass? Write steps?

Sol:



4. Construct a triangle ABC given that  $AB=4\text{cm}$ ,  $BC=6\text{cm}$  and  $AC=5\text{cm}$ ?

Sol:

5. Construct a triangle ABC given that  $PQ=4\text{ cm}$ ,  $QR=6.5\text{ cm}$  and angle  $PQR=60^\circ$ ?

Sol:

6. Construct a triangle XYZ given that  $XY=6\text{cm}$  angle  $ZXY=30^\circ$  and angle  $XYZ=100^\circ$  Find the third angle ?

Sol:

### III . Multiple Choice Questions

1. We use protractor to measure \_\_\_\_\_ [ ]

- (a) Ray (c) Angle  
(b) Line (d) Vertex

2. Any Point on the bisector of an angle is \_\_\_\_\_ from the sides of an angle [ ]

- (a) Near (c) distant  
(b) Equidistant (d) Far

3 In a Triangle when the lengths of all the three sides are given we construct triangle with \_\_\_\_ [ ]

- (a) Compass and Ruler (c) Square set  
(b) Protractor (d) Divider

4. The angle of straight line is \_\_\_\_\_ [ ]

- (a)  $0^{\circ}$  (c)  $180^{\circ}$   
(b)  $90^{\circ}$  (d)  $360^{\circ}$

5. The angles are usually measures in \_\_\_\_\_ [ ]

- (a) Radian (c) degrees  
(b) Celsius (d) Fahrenheit

6. The Standard Size of the Protractor is \_\_\_\_\_ [ ]

- (a)  $90^{\circ}$  (c)  $180^{\circ}$   
(b)  $360^{\circ}$  (d)  $120^{\circ}$

7. There are \_\_\_\_\_ sets of numbers in protractor [ ]

- (a) One (c) Three  
(b) Two (d) five

**DATA HANDLING**

1. Define Data and its types?

Sol:

2. Give examples of Collection of data?

Sol:

3. In How many ways we can organize data?

Sol:

4. What are the methods of Data Collections?

Sol:

5. Define

(a) Raw Data : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(b) Range : : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(c) Tally Marks: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

6. Draw Frequency Distribution Table and show its various parts?

Sol:

7. Define Discrete and Continuous variables?

Sol:

8. Draw Bar graph and its Properties?

Sol:

9. Define Pictograph and show with an example?

Sol:

10. Define Line Charts and show its parts?

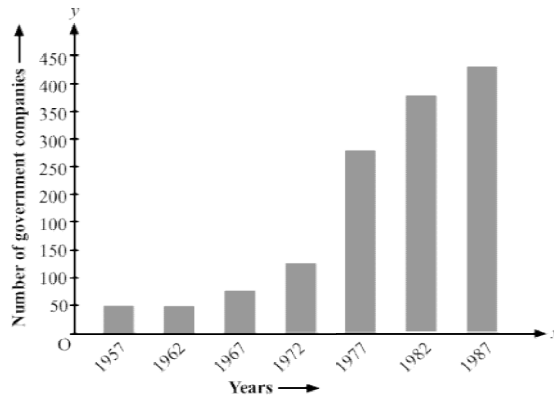
Sol:

### **III . Multiple Choice Questions**

1. The \_\_\_\_\_ Graph can be plotted vertically or horizontally [ ]  
(a) Pie (c) Line  
(b) Bar (d) double bar
2. Bar graphs are an effective way to compare items between different \_\_\_\_\_ [ ]  
(a) Axes (c) groups  
(b) Tables (d) lines
- 3 \_\_\_\_\_ is a circular statistical graphic, which is divided into slices to illustrate numerical Proportion [ ]  
(a) Pizza chart (c) Pie Chart  
(b) Donut Chart (d) Line chart
4. The Circle Chart is also known as \_\_\_\_\_ [ ]  
(a) Bar graph (c) Die Chart  
(b) Pie graph (d) Line chart
5. A \_\_\_\_\_ graph is a type of chart used to show information that changes over time [ ]  
(a) Line Graph (c) Pie graph  
(b) Double Line Graph (d) Sensex graph
6. We use \_\_\_\_\_ bar graph to compare two data groups [ ]  
(a) Single (c) double line  
(b) Double (d) line
7. \_\_\_\_\_ is used to summarize discrete or continuous data that are measured on an interval scale. [ ]  
(a) Pie Chart (c) Histogram  
(b) Line Graph (d) Bar Graph

**DATA HANDLING**

1. Read the following bar graph and answer the following questions:



(i) What is the information given by the bar graph?

(ii) State each of the following whether true or false.

(a) The number of government companies in 1957 is that of 1982 is 1: 9.

(b) The number of government companies has decreased over the year 1957 to 1983.

Sol:

2. The names of the heads of some families in a village and the quantity of drinking water their family consumes in one day are given below. Draw a bar graph for this data.

(Scale: On Y - axis, 1cm = 10 litres of water). Note :Draw using Graph Paper

Name	Ramesh	Shobha	Ayub	Julie	Rahul
Litres of water used	30 litres	60 litres	40 litres	50 litres	55 litres

Sol:

3. Draw a Double bar graph for the following data given in the table. Note: Draw using Graph Paper

Student	Maths	Hindi
A	20	10
B	30	25
C	10	10
D	15	40

Sol:

5. Percentage of pass in SSLC Examination of a school is given. Draw a line graph. Note: Draw using Graph Paper

Year	Percentage of pass
1999	30
2000	40
2001	70
2002	50

Sol:



6 Define Mean, Median, Mode and find them for the following data

7,3,4,1,7,6 ?

Sol:

7. Construct a histogram for the following frequency distribution table that describes the frequencies of weights of 25 students in a class. Note :Draw using Graph Paper

<b>Weights (in lbs)</b>	<b>Frequency (Number of students)</b>
65 - 70	4
70 - 75	10
75 - 80	8
80 - 85	4

Sol:

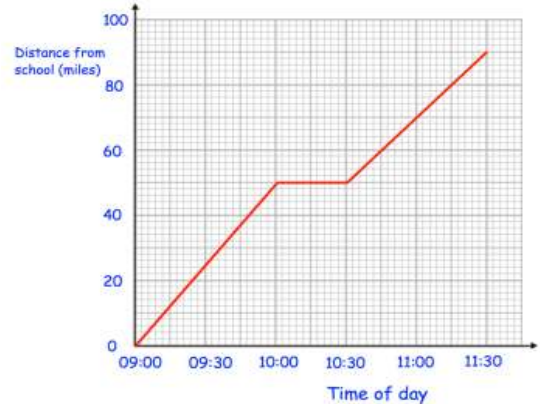
8. Plot the point (2,3) in the Cartesian Plane ? Note : Draw in Graph Paper

Sol:

9. Define direct and indirect variation in Cartesian plane? Note : Draw in graph Paper

Sol:

10. The distance-time graph shows class 8A's journey to the zoo. They stopped for a picnic on the way to the zoo.



- (a) What time did the bus leave school?
- (b) What time did they stop for a picnic?
- (c) How far had they travelled when they stopped for a picnic?
- (d) How long did they stop for?
- (e) What time did they arrive at the zoo?
- (f) How far is the zoo from school?

Sol:

### III . Multiple Choice Questions

1. The \_\_\_\_\_ Paper is used to draw graphs [ ]  
(a) Pie (c) Line  
(b) Bar (d) Graph
2. A frequency polygon is almost identical to \_\_\_\_\_ [ ]  
(a) Histogram (c) groups  
(b) Tables (d) lines
- 3 \_\_\_\_\_ deals with the collection of data and information [ ]  
(a) Pizza chart (c) Pie Chart  
(b) Information & Technology (d) Statistics
4. A \_\_\_\_\_ graph shows how far an object has travelled in a given time. [ ]  
(a) Bar graph (c) Distance-Time Graph  
(b) Pie graph (d) Line chart
5. In \_\_\_\_\_ variation y is directly proportional to x [ ]  
(a) Indirect (c) Pie graph  
(b) Double Line Graph (d) direct
6. In \_\_\_\_\_ variation y is indirectly proportional to x [ ]  
(a) Indirect (c) Pie graph  
(b) Double Line Graph (d) direct
7. \_\_\_\_\_ Plane is a two dimensional plane. [ ]  
(a) Pie Chart (c) Histogram  
(b) Co-ordinate plane (d) Bar Graph

**RATIONAL NUMBERS**

1. Define Rational Number and its types? Given examples  
Sol:

2. Define Irrational Number? Give an example.  
Sol:

3. Define Absolute Value of a Rational Number? Give an example  
Sol:

4. Compare the given rational numbers 4  
Sol:

### III . Multiple Choice Questions

1. "1" is called as \_\_\_\_\_ number [ ]

- (a) Unit (c) Odd  
(b) Unique (d) Even

2. The first whole number is \_\_\_\_\_ [ ]

- (a) One (c) Ten  
(b) Zero (d) infinity

3 \_\_\_\_\_ is the set of whole numbers and their opposites. [ ]

- (a) Integers (c) Whole numbers  
(b) Fractions (d) Decimals

4. The whole number zero has no \_\_\_\_\_ . [ ]

- (a) Successor (c) one  
(b) Predecessor (d) End

5. \_\_\_\_\_ is neither Positive nor negative [ ]

- (a) Integers (c) Zero  
(b) one (d) Whole number

6. Fraction is a part of a \_\_\_\_\_

- (a) Whole number (c) Pie graph  
(b) integers (d) Whole

7. All Natural Numbers are also \_\_\_\_\_ Numbers [ ]

- (a) Negative (c) Whole numbers  
(b) Co-ordinate plane (d) Positive