

# SAINIK SCHOOL IMPHAL



## SUMMER VACATION

### 2024-25

## ASSIGNMENT/PROJECTS

### CLASS IX

# INFORMATION TECHNOLOGY

**SAINIK SCHOOL IMPHAL**

**SUMMER VACATION ASSIGNMENT: 2024-25**

**SUBJECT: INFORMATION TECHNOLOGY (402) – CLASS IX**

**Instructions:**

- Question I should be written in the Computer Homework Notebook.
- Question II should be done in A4 size paper. Please write only on one side of the page.
- Minimum no. of pages required is 13 pages.

**I. Answer the following questions.**

1. Write down the different types of verbal communication. Give an example for each type.
2. Give examples of any four common signs used for visual communication.
3. Identify the conjunctions and prepositions. Choose the conjunctions and prepositions from the list given below.  
Under, And, In, At, Or, Up
4. Write two to three lines you would use to introduce yourself.
5. Re-arrange the words to form questions.
  - (a) she/like/sing?/Does/to
  - (b) waiting/What/are/you/for?
  - (c) play/like/football?/Do/you/to
  - (d) fighting?/they/are/Why
6. List the advantages of written communication.
7. What are the disadvantages of non-verbal communication?
8. Explain the importance of gestures and eye contact while you speak to someone in person.
9. What care should we take while we meet and talk to a person for the first time?
10. What do you mean by interjection and conjunction? Explain with 2 examples each.
11. What are the characteristics of communication?
12. Name the types of oral communication.
13. What is visual communication?
14. Explain the meaning of self-management.
15. How should we manage our emotions?
16. What are the advantages of self-management?
17. What are the parts of speech?
18. What are adverbs? Give example.
19. What are adjectives? Give example.
20. What are WH questions? Give example.

**II. Write an assignment on the various computer Peripherals.** The following terminologies should be included:

- Scanner
- Storage Devices
- Printer
- Wi-Fi
- Bluetooth
- GPS
- ROM
- HDMI Port
- Blu ray disc
- Pen drive

The sequence of the assignment should be as follows:

- Cover Page
- Contents
- Introduction
- Explaining the various topics

Details are given below.

### Cover Page

## **“Computer Peripherals”**

Summer Vacation Assignment: 2024-25

Submitted By:

Cdt ....

Adm No ....

Class... Section ...

Submitted To:

Sir Tiken

TGT Computer Science

**SAINIK SCHOOL IMPHAL**

### 2nd Page

## **Contents**

	Page No
Introduction	1
Scanner	2
Storage Devices	3
Printer	4
Wi-Fi	5
Bluetooth	6
GPS	7
ROM	8
HDMI Port	9
Blu ray disc	10
Pen Drive	11

## Introduction

### **Introduction**

(Write a short note on Computer Systems in about 200 words)

### **SCANNER**

(Explain in detail about the Scanner in this page in about 100 words.)

### **Storage Devices**

(Explain in detail about the Storage Devices in this page in about 100 words.)

### **Printer**

(Explain in detail about the Printer in this page in about 100 words.)

## **Wi-Fi**

(Explain in detail about wi-fi in this page in about 100 words.)

## **Bluetooth**

(Explain in detail Bluetooth in this page in about 100 words.)

## **GPS**

(Explain in detail about GPS in this page in about 100 words.)

## **ROM**

(Explain in detail about ROM in this page in about 100 words.)

## **HDMI PORT**

(Explain in detail about the HDMI port in this page in about 100 words.)

## **BLU RAY DISC**

(Explain in detail about the Blu ray disc in this page in about 100 words.)

## **PEN DRIVE**

(Explain in detail about the Pendrive in this page in about 100 words.)

**HINDI**



सैनिक स्कूल इम्फाल

कक्षा - नवीं (Class-9), 2024-25

विषय - हिंदी (ब)

**Summer Vacation Home work / Project work**

**ग्रीष्मावकाश गृहकार्य / परियोजना कार्य**

- श्री नॉथोमबम गुणचन्द्र सिंह  
सहायक अध्यापक हिंदी

अनुच्छेद :-	<ol style="list-style-type: none"><li>1. वन महोत्सव</li><li>2. स्वच्छ भारत अभियान</li><li>3. राष्ट्र-निर्माण में विद्यार्थियों का योगदान</li><li>4. सिनेमा और समाज</li><li>5. विज्ञापन वरदान या अभिशाप</li></ol>
निर्देश- (Instructions)	<ul style="list-style-type: none"><li>• उपर्युक्त विषयों में से किसी दो विषय पर 100 शब्दों का अनुच्छेद लिखिए। यह अपने गृहकार्य नोटबुक में लिखें। ध्यान रहें- आपका गृहकार्य या परियोजना स्वरचित (Self made/Writing) होनी चाहिए। संप्रेषण या अभिव्यक्ति को प्रभावी बनाने हेतु विशेष शब्दों तथा उचित चित्रों का (चिपकाकर) प्रयोग किया जा सकता है।</li><li>• यह गृहकार्य आंतरिक मूल्यांकन (Internal Assessment) के लिए प्रयोग किया जा सकता है।</li></ul>
लेख (Article)	देश भक्ति, अनेकता में एकता, वीर सैनिक, पर्यावरण संरक्षण, जल संरक्षण, प्राकृतिक सौंदर्य, अहिंसा शांति, मानवता, परिश्रम, किसान और मजदूर, बचपन और मित्रता, विषयों पर आधारित कोई एक या दो कविता, कहानी, संस्मरण, डायरी, नाटक लिखिए।
निर्देश- (Instructions)	<ul style="list-style-type: none"><li>• आपका लेख स्वरचित (Self made/Writing) होनी चाहिए। केवल A4 पेपर का ही प्रयोग करें। साथ ही A4 पेपर का एक साइड ही प्रयुक्त किया जाना चाहिए। अच्छे लेख को स्कूल की वार्षिक पत्रिका 2022-23 में प्रकाशित किया जाएगा।</li><li>• यह गतिविधि या कार्य आंतरिक मूल्यांकन (Internal Assessment) के लिए प्रयुक्त किया जा सकता है।</li></ul>

श्री नॉथोमबम गुणचन्द्र सिंह  
सहायक अध्यापक हिंदी

# सैनिक स्कूल इम्फाल / SAINIK SCHOOL IMPHAL

सत्र : 2024-2025

कक्षा - ..... (Class- .....)

विषय - .....

Summer Vacation Home work / Project work

ग्रीष्मावकाश गृहकार्य / परियोजना कार्य

दिनांक -        /        / 2024

निरीक्षक-

श्री एन. गुणचन्द्र सिंह

सहायक अध्यापक हिंदी

प्रस्तुतकर्ता-

कैडेट- .....

कक्षा - ....., श्रेणी - ( ..... )

प्रवेश संख्या - .....

सदन- ..... सदन

**MANIPURI**

Summer Vacation. Homework. Class-9(AB)2024-25. Sub-Manipuri.

Prose Section :-

ਘ) ਟਫਠੇ ਘੋਠਠੀ ਫਠੇਘੋਠੁਠੁ(ਟਫਠੇ ਘ ਂਠਠੀ ਠਘਾਠੁਠੁ, ਘੋਠੁ ਏਠ, ਠੇਠੁ ਠ ਂਘਠੁਠੁਠੁ) ਠਠੀ ਠੇਘਘਘਾ ਠੀਘ ਠਾਠੇਠੁਠੁ, ਠੀਠਠਠੀਠੀਠੀ ਠਠੇਘਠ ਠਠਘਾਠੁ ॥

ਠ) ਠਠੇਠੁ ਠਠੀ ਠੀਠੇਠੁ- ਠੀਠੇਠੁਠੁ ਘੋਘਠਠੁ ਠਾਠੇਠੁਠੁਠੁ ਠਾਠੇਠੁਠੁ ਘਠਠੀਠੀ ਠਾਠੇਠੁਠੁ ( 80) ਠਠੀ ਠਠਠਠੁ ਠੁਠਾਠੇਠੁਠੁ ਠਠਘਾਠੁ ॥

Poetry Section:-

ਘ)" ਠੀਘਠੇਠੁਠੁ" ਘਠਠੀ "ਠਠਠੁ" ਠੇਠੁਠੁ ਠੀਠੁਘ ਘਠੀਠੀਠੀ ਠੇ-ਠਠੀ ਠਠਘਾਠੁ ॥

Grammar Section:-

ਘ) ਠਠੇਠੁਘ ਘਠੇਠਾਠੇਠੁ ਠਠੀ ਠੇਠੁਘ ਘਠ ਠੁਘਾਠੁਠੁਠੁ ਠੇਠੁਘ ਠੁਘਠੇਠੁਠੁਠੁਠੁ ਠੁਠੁ ॥

Subject Teacher.

Mrs Th. Meneka Devi

TGT Manipuri

#7005233360

Mr.M jiten Singh

TGT Manipuri

#8974384534.

# MATHEMATICS

## **Vacation Homework**

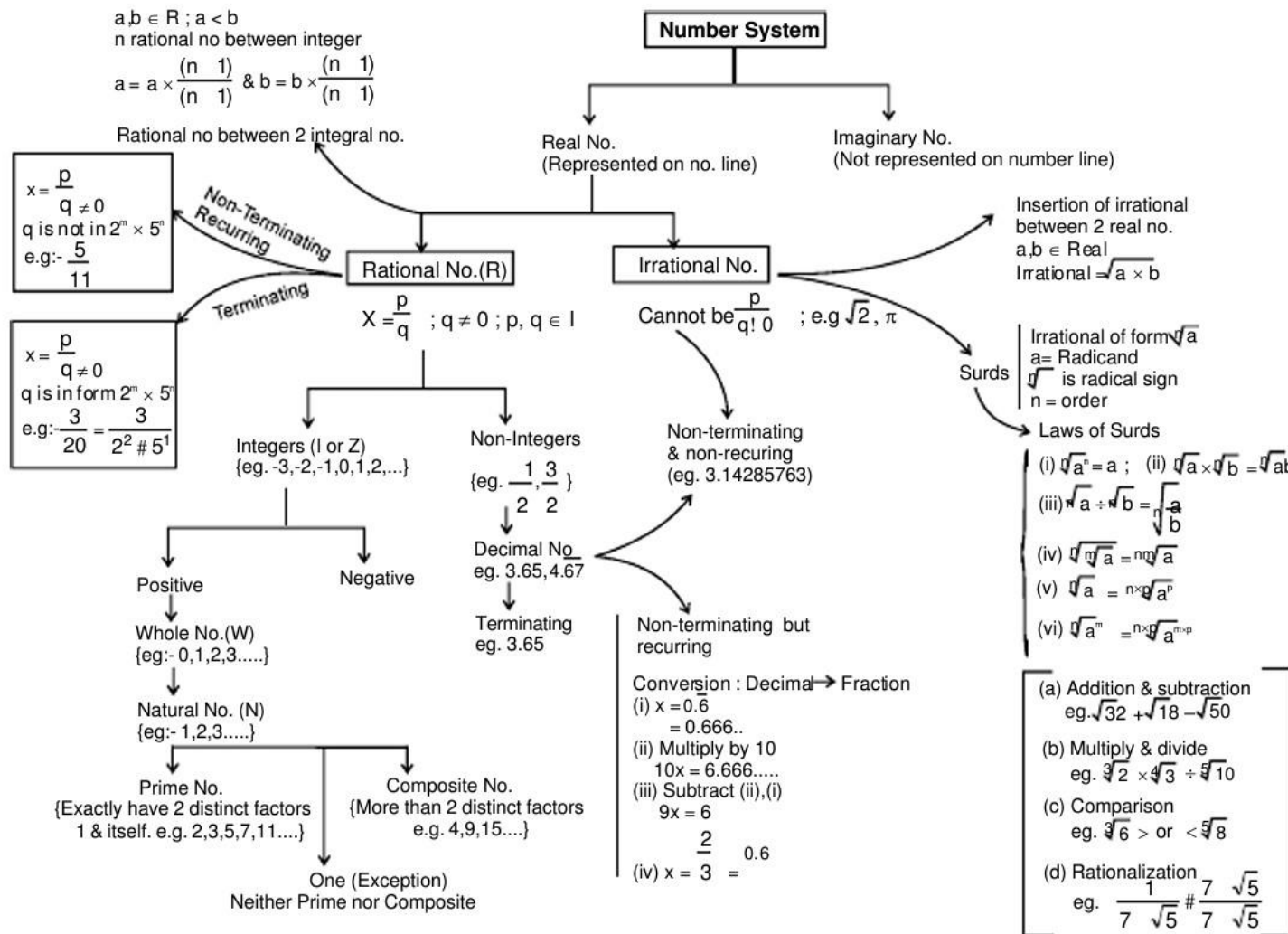
### **Class IX Maths**

Prepare neat and clean concept maps for the following chapter:

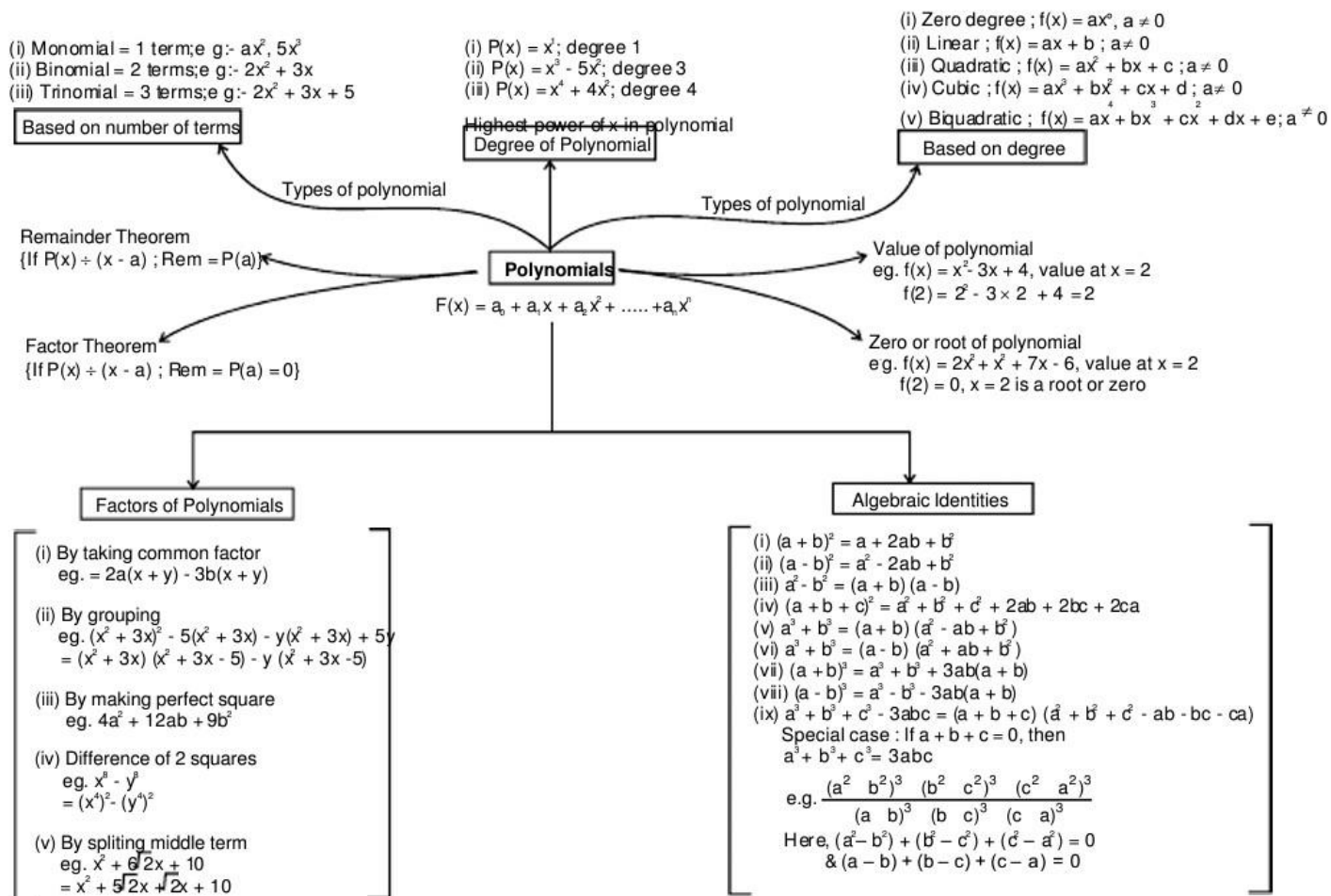
1. Number systems
2. Polynomials
3. Lines and angles
4. Triangles
5. Co-ordinate Geometry
6. Linear equation in two variables

Sample concept maps are given below for your reference.

# Number System



# Polynomials



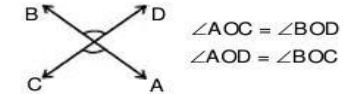


# Lines & Angles

- (vii) Zero  $\angle$  :-  $\theta = 0^\circ$
- (vi) Complete  $\angle$  :-  $\theta = 360^\circ$
- (v) Reflex  $\angle$  :-  $180^\circ < \theta < 360^\circ$
- (iv) Straight  $\angle$  :-  $\theta = 180^\circ$
- (iii) Obtuse  $\angle$  :-  $90^\circ < \theta < 180^\circ$
- (ii) Acute  $\angle$  :-  $0 < \theta < 90^\circ$
- (i) Right  $\angle$  :-  $\theta = 90^\circ$

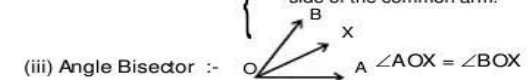
Types of Angles

(vi) Vertically opp. angles :-



(v) Linear Pair :-  $\theta_1 + \theta_2 = 180^\circ$  ( $\theta_1$  &  $\theta_2$  are adjacent)

(iv) Adjacent angles :-  
 (a) they have the same vertex, they have a common arm,  
 (b) non common arms are on either side of the common arm.



(iii) Angle Bisector :-

(ii) Supplementary angles :-  $\theta_1 + \theta_2 = 180^\circ$

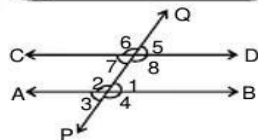
(i) Complementary angles :-  $\theta_1 + \theta_2 = 90^\circ$

Pair of  $\angle$ 's ( $\theta_1$  &  $\theta_2$ )

Lines & Angles

Types of Triangles

Angles made by Transveral



- (i) Corresponding angles  
( $\angle 1$  &  $\angle 5$ ,  $\angle 2$  &  $\angle 6$ ,  $\angle 3$  &  $\angle 7$ ,  $\angle 4$  &  $\angle 8$ )
- (ii) Alternate interior angles  
( $\angle 1$  &  $\angle 7$ ,  $\angle 2$  &  $\angle 8$ )
- (iii) Co-interior angles  
( $\angle 1 + \angle 8 = 180^\circ = \angle 2 + \angle 7$ )
- (iv) Alternate exterior angle  
( $\angle 4$  &  $\angle 6$ ,  $\angle 3$  &  $\angle 5$ )

Basis of Sides

- (i) Scalene (all sides diff.)
- (ii) Isoceles (2 sides equal)
- (iii) Equilateral (all sides equal)

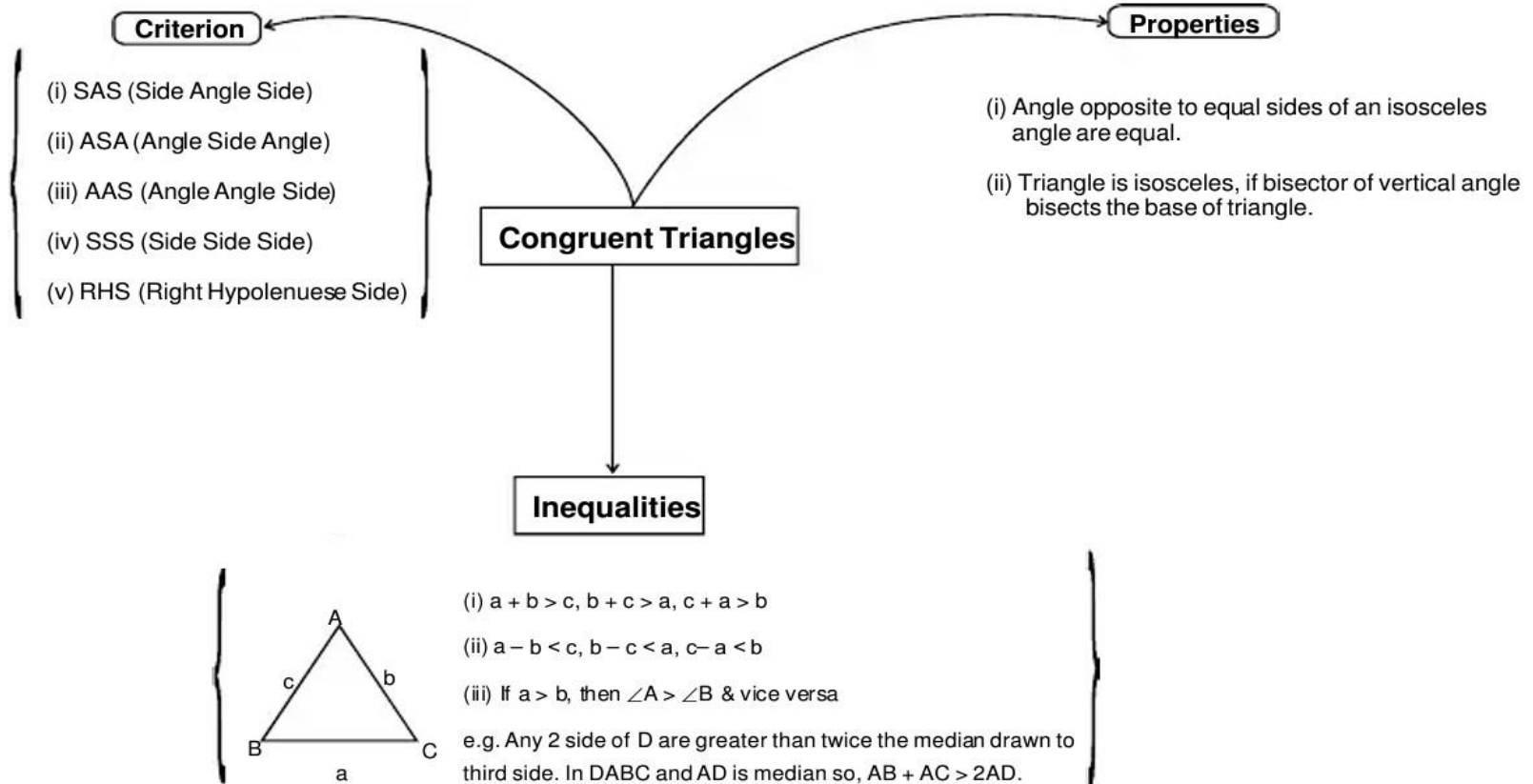
Basis of angles

- (i) Right ( $\theta = 90^\circ$ )
- (ii) Acute ( $0 < \theta < 90^\circ$ )
- (ii) Obtuse ( $90^\circ < \theta < 180^\circ$ )

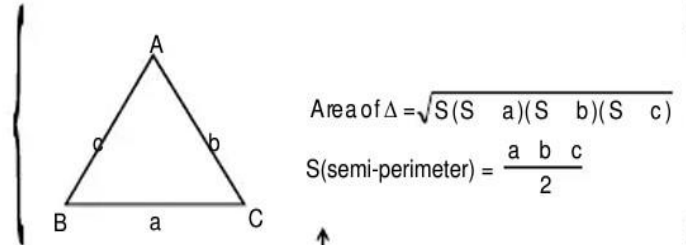
Properties

- (i) Sum of interior angles of  $\Delta = 180^\circ$
- (ii)  $\angle BOC = 90 + \frac{1}{2} \angle A$
- (ii) Ext.  $\angle =$  Sum of 2 interior opp.  $\angle$ 's.
- (iii)  $\angle BOC = 90 - \frac{1}{2} \angle A$

## Congruent Triangles



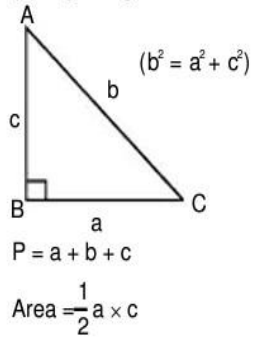
## Perimeter & Area of $\Delta$



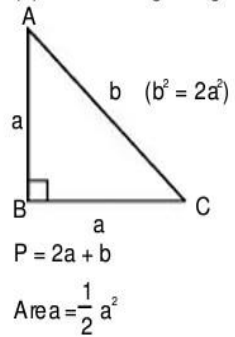
**Heron's Formula**

**Perimeter & Area of  $\Delta$**

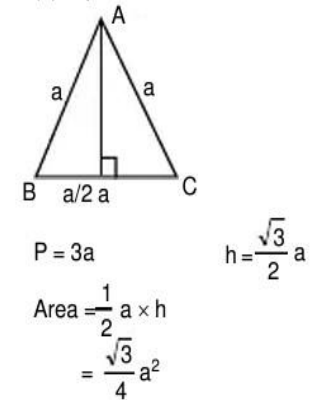
(a) Right angled  $\Delta$



(b) Isosceles right angled  $\Delta$



(c) Equilateral  $\Delta$



# Area of parallelogram & Triangle

Area of Ilgm

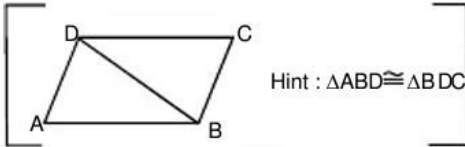
Properties

Area of  $\Delta$

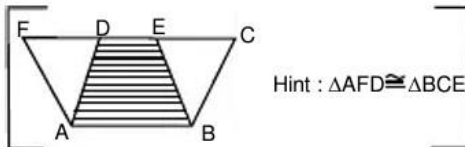
Properties

## Area of Ilgm & Triangle

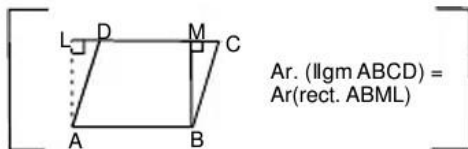
(i) A diagonal of Il gm divides it into 2  $\Delta$ 's of equal area



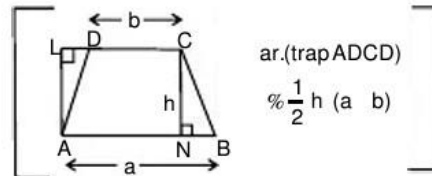
(ii) Parallelogram on same base and between same parallel are equal in area.



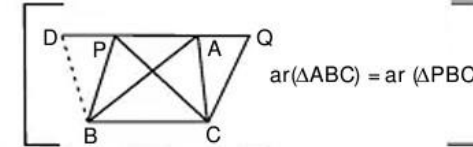
(iii) Area of Ilgm is product of its base & corresponding alt.



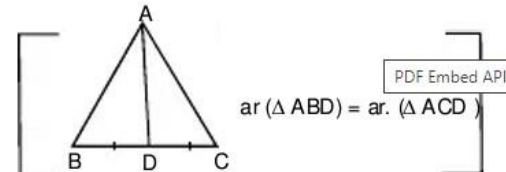
(i) Area of trapezium is half the product of its height & sum of Il el sides.



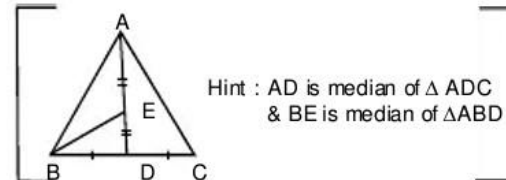
(i) Two  $\Delta$ 's on the same base and between same parallels are equal in area.



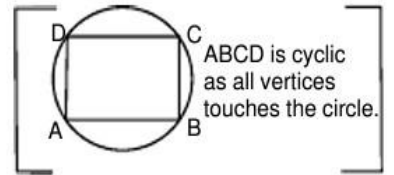
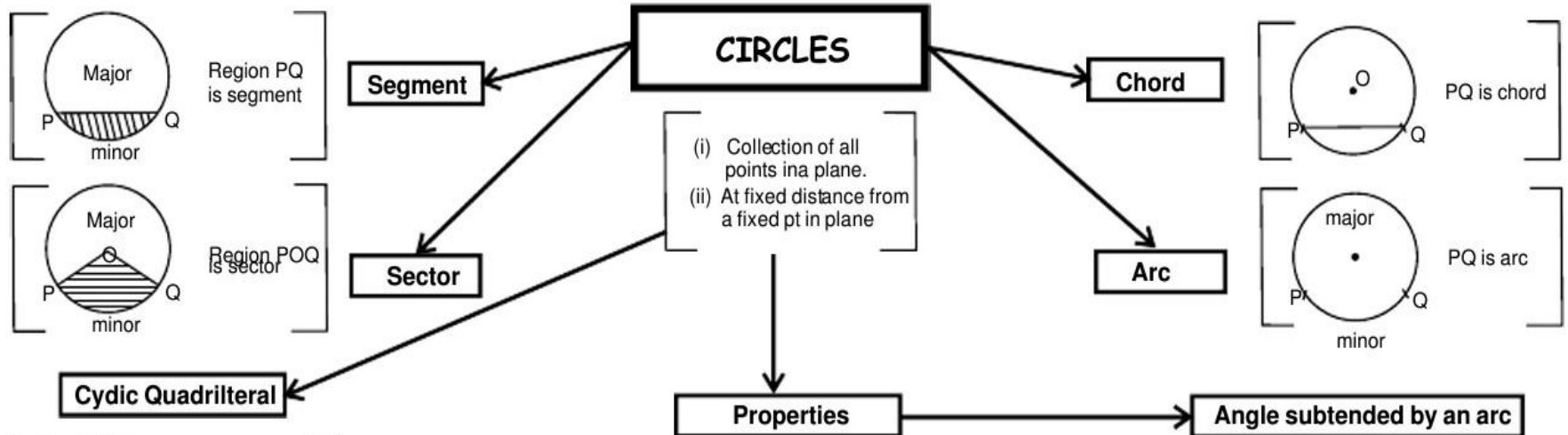
(ii) Median of triangle divides it into 2 triangles of equal area.



Eg :- ABC is  $\Delta$  in which D is mid-pt of BC and E is mid-Point of AD.  
PT. or  $\Delta BED = \frac{1}{4} ar. \Delta ABC$

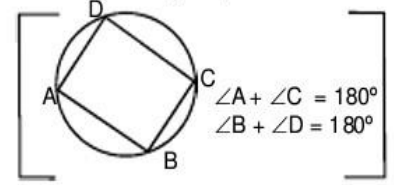


# Circles

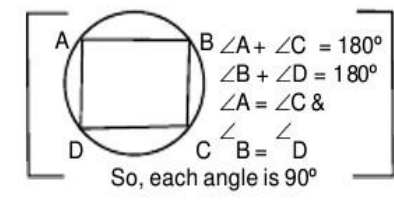


Property

(i) Sum of either pair of opposite angles of cyclic quad. is  $180^\circ$

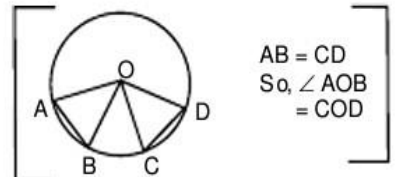


Eg :- Cyclic Iqgm is rectangle

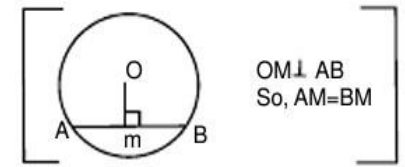


## Properties

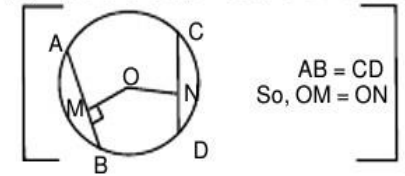
(i) Equal chord of a circle subtend equal angles at the centre.



(ii)  $\perp$  from centre of a circle bisects the chord.

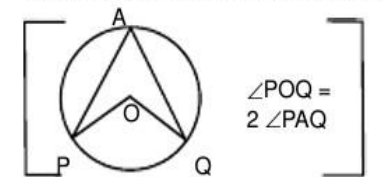


(iii) Equal chord equi-distant from centre.

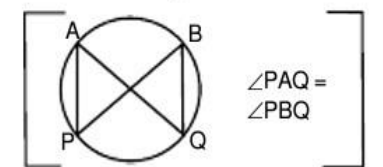


## Angle subtended by an arc

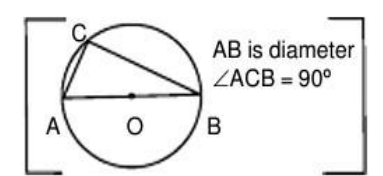
(i) Angle subtended at the centre is double the subtended on remaining part of circle.



(ii) Angles in the same segment of a circle are equal.



(iii) Angle in semi-circle is right



$\therefore SA = 2\pi rh$   
 $\therefore SA = 2\pi rh + 2\pi r^2$   
 $\therefore 2\pi r(r + h)$   
 $\therefore \text{Volume} = \pi r^2 h$

linder

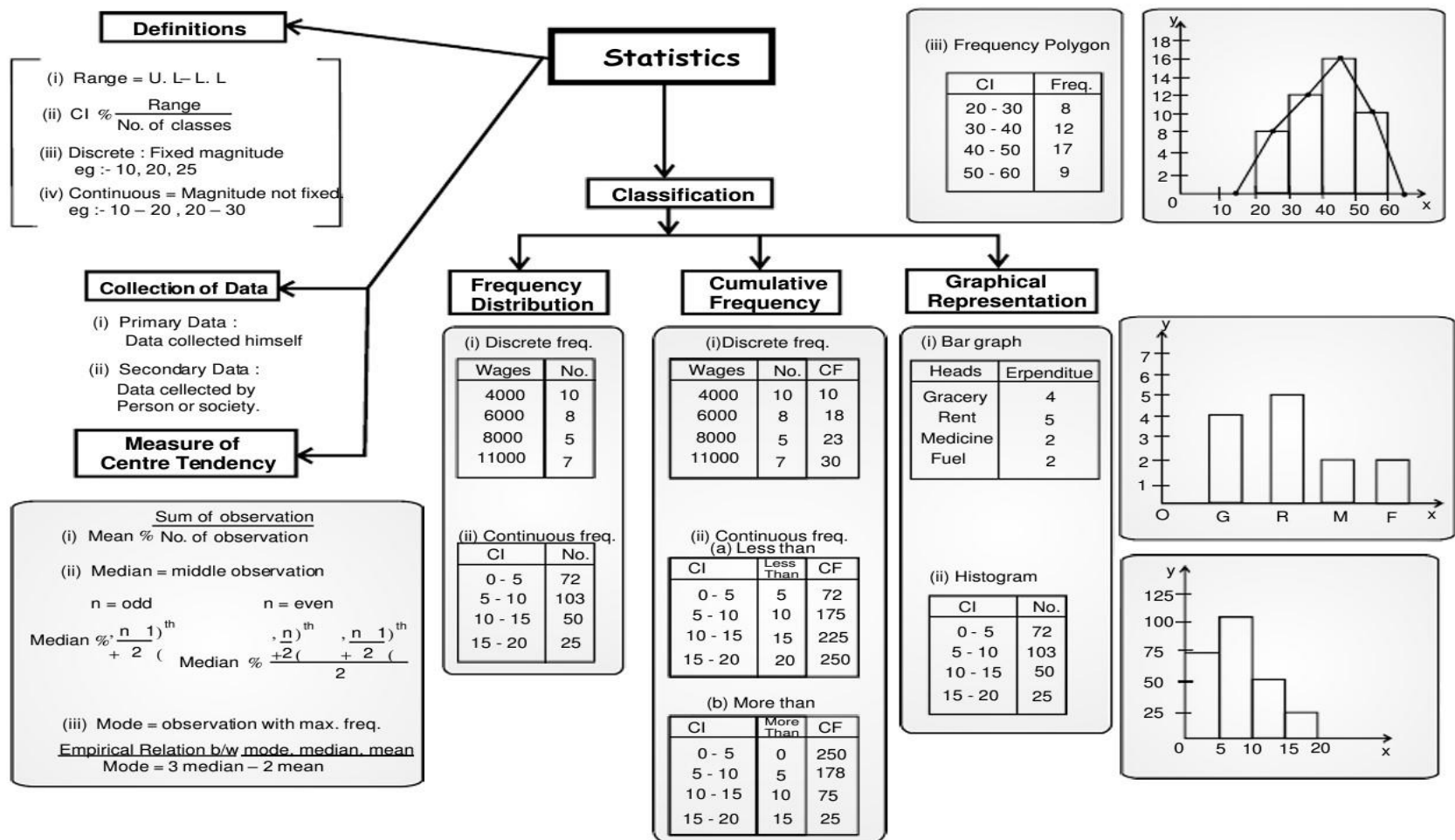
CE AREA  
VOLUME

one

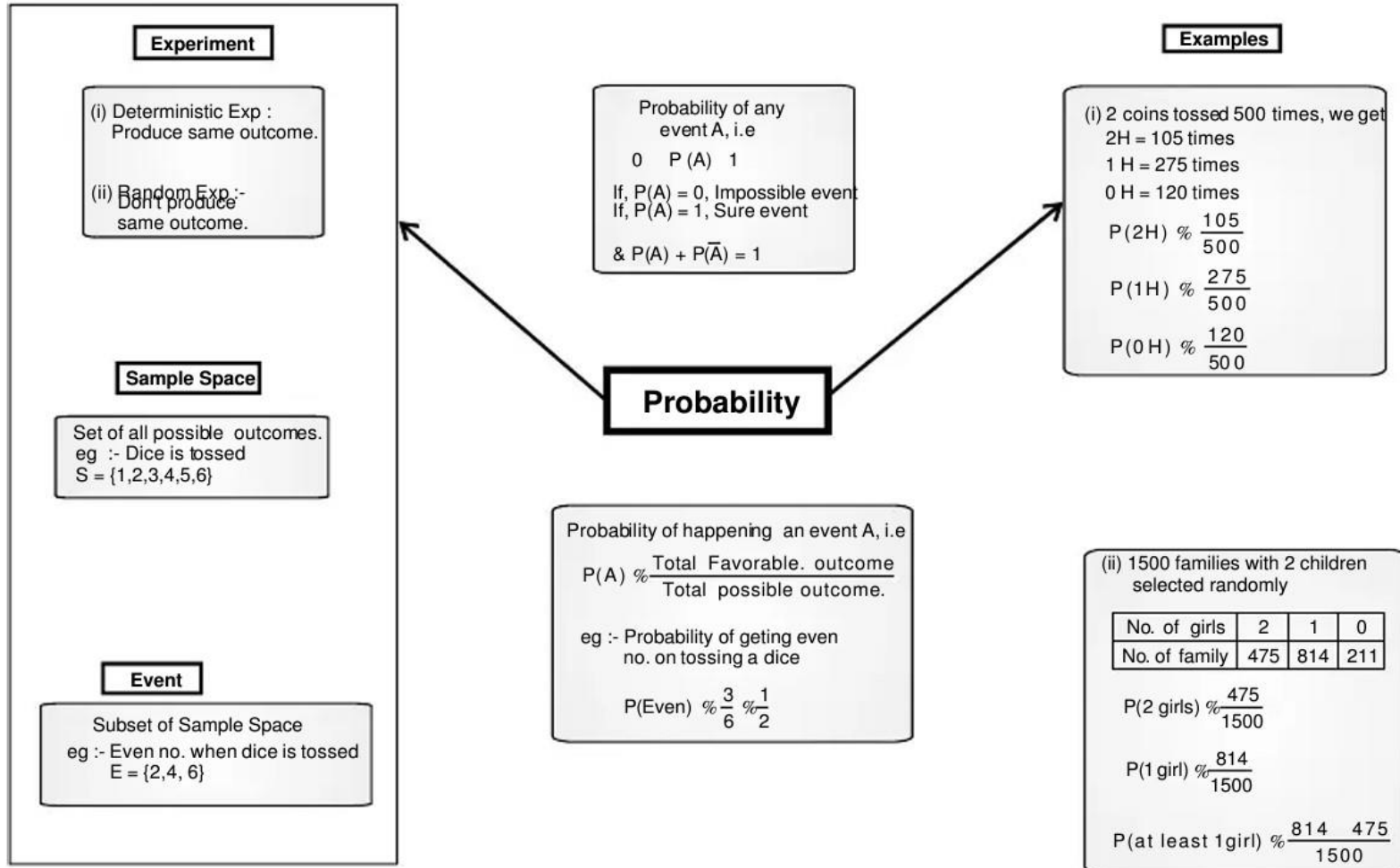
C.S.A =  $\pi r l$

$\frac{\pi r l + \pi r^2}{r}$   
 $\frac{1}{3} \pi r^2 h$

Slant height



# Probability



**SCIENCE**



## Home Work For Summer Vacation, 2024-25

**Class 9**

**Subject : Science**

1. Differentiate between uniform acceleration and non- uniform acceleration.
2. Draw the D-T graph of following situations.
  - (a) The body is at rest.
  - (b) The acceleration of the body is equal to zero.
  - (c) When the body is in non-uniform motion with increasing speed
  - (d) When the body is in non-uniform motion with decreasing speed
3. Why do the gases exert more pressure on the walls of the container than the solids?
4. Gases can be compressed but it is difficult to compress solids. Why?
5. In higher altitude (hills and mountains), water boils in short period of time but foods are not cook properly. For proper cooking of food, it requires to boil for longer time. Give reason.
6. Draw and learn the following Diagram
  - (i) Fig. 6.3 Section of stem
  - (ii) Fig. 6.4 Various types of simple tissues
    - (a) Parenchyma (i) Transverse section (ii) Longitudinal section
    - (b) Collenchyma (i) Transverse section (ii) Longitudinal section
    - (c) Sclerenchyma (i) Transverse section (ii) Longitudinal section
  - (iii) Fig. 6.5 Guard cell
  - (iv) Fig. 6.6 Protective tissue
  - (v) Fig. 6.7 types of connective tissue
  - (vi) Fig. 6.9 Different types of epithelial tissue
  - (vii) Fig. 6.10 Different types of connective tissue
  - (viii) Fig. 6.11 Different types of muscular tissue
  - (ix) Fig. 6.12 Neuro, Unit of neuron tissue

**Note:**

- a) Use A4 size paper for vacation work.
- b) Do your vacation work by yourself.
- c) Writings and drawing D-T graph/diagram should be very good, neat and clean.

# SOCIAL SCIENCE

Summer vacation project work 2024-25  
Subject : Social Science (Disaster Management)

Prepare a Project work on the topic of "Drought". While preparing the project, touch the following points.

1. Introduction
2. Before the disaster
3. During the disaster
4. After the disaster
5. Causes of it
6. Damages created by it
7. Drought prone areas
8. Mitigation of it
9. Include map, photo, chart, etc.

N.B.

- Prepare the project on A4 size paper only.
- Write one side of the paper within 6 to 10 pages including cover pages.
- The project should be only in Manuscript.
- Staple the presentation at least two pins.

Class: IX

Answer the following questions. Word Limits: 100 to 150 words.

1. Describe how the poverty line is estimated in India.
2. Describe poverty trends in India since 1973.
3. Describe global poverty trends.
4. What has our government done to provide food security to the poor?  
Discuss any two schemes launched by the government?
5. Differentiate between seasonal hunger and chronic hunger?

**ENGLISH**

**Class 9 A & B**  
**Summer Vacation Assignment (2024-25)**  
**Subject: English**

1. Define the following literary devices giving examples

- a) Simile
- b) Metaphor
- c) Alliteration
- d) Assonance
- e) Symbolism
- f) Imagery
- g) Paradox
- h) Transferred epithet
- i) Irony
- j) Onomatopoeia

2. Write down the change of tenses while converting from Direct to Indirect Speech.

3. Read any one of the following and write a book review on it. (180- 200 words)

- a) Ikigai: the Japanese secret to a long and happy life
- b) Ikigai for teens

4. Write meaning/synonym of 15 difficult words each from 'The Sound of Music' and 'The Shehnai of Bismillah Khan' (not the words whose meanings are given in textbook) from Beehive textbook.

# Do your vacation homework in your English homework copy.