

Class 11 Applied Mathematics – Holiday Homework

Chapter 1: Sets

Assignment: 1. Conceptual Worksheet: Solve at least 10 questions involving:

Union, intersection, and complement of sets

Venn diagrams

Applications of sets in solving word problems

2. Real-life Application Task:

Create a survey among 10 people to find: Who likes Tea, Coffee, Both, or None

Represent this data using a Venn Diagram and analyze results (e.g., number of people who like only coffee).

Chapter 2: Sequence and Series

Objective: Learn to identify patterns and apply formulas for arithmetic and geometric progressions.

Assignment: 1. Practice Problems:

Solve 5 problems each of: Arithmetic Progression (AP)

Geometric Progression (GP)

Include finding the n th term, sum of n terms, and real-world examples.

2. Creative Task:

Create your own pattern/sequence and write its first 10 terms.

Explain whether it's AP/GP or neither, and justify.

3. Application Task:

Research and write how AP/GP is used in:

Monthly savings/investments

Population growth

Chapter 3: Permutations and Combinations

Assignment: 1. Worksheet: Solve the following: 5 questions on permutations (including repetition and restriction-based problems) 5 questions on combinations

2. Puzzle Time: Create 3 original puzzles or word problems using the concept of permutations/combinations (e.g., arranging books, choosing committees).

3. Project Task: Explore how permutations/combinations are used in: Creating passwords
Scheduling events

Instructions: Use A4 size ruled sheets.

Write neatly; include headings for each section.

Diagrams should be clean and labeled.

Submit in a folder with your name and class.

CLASS 11
POLITICAL SCIENCE
HOLIDAY HOMEWORK

1. Read the newspaper daily and maintain the track of political events during the holidays in your notebooks.
 - Paste the relevant newspaper articles on A4 size sheets.
 - Write an analysis of each of the following articles in front of each news.
2. Study the constitution of India, the UK and the USA.
 - Compare the constitution of India with those of the UK and USA.
 - Focus on structure, right and power.
3. Conduct a political Survey.
 - A survey form will be provided in the group.
 - Conduct the survey with a minimum of three people

HINDUSTANI CLASSICAL VOCAL

1. तानपुरा का चित्र बनाकर उसके अंगों को लेबल कीजिए।
2. किसी भी वर्तमान कालीन खयाल गायक का जीवन परिचय व सांगीतिक योगदान लिखिए।
3. भिन्न वर्णों के आधार पर 20 अलंकार लिखिए।
4. संगीत से आप क्या समझते हैं? 100 शब्दों में एक अनुच्छेद लिखिए।

Holiday Homework

Class: 11th

Subject: Physical Education

1) Make Proper Notes of these 3 Units

Unit 1: Changing Trends and Career in Physical Education

This unit discusses the evolution of physical education over time. Key topics include the modern approach to fitness and wellness, integration of technology in training, and the growth of fitness-related professions. It covers various career options such as fitness trainers, sports psychologists, physiotherapists, coaches, and educators. The role of government policies and initiatives in promoting sports and physical education is also highlighted.

Unit 2: Olympic Value Education

This unit emphasizes the importance of Olympic values like excellence, friendship, and respect. It provides an overview of the Olympic movement, its history, and objectives. Students learn about the significance of fair play, team spirit, and the impact of Olympics on global unity. The role of education in spreading Olympic values is also discussed.

Unit 3: Yoga

This unit introduces students to the concept and importance of Yoga in daily life. It includes a brief history of Yoga, its types (Hatha Yoga, Ashtanga Yoga, etc.), and benefits for physical and mental health. The unit also covers basic asanas (postures), pranayama (breathing techniques), and their impact on well-being. Yoga as a preventive and therapeutic measure is also discussed.

2) Make Practical File on Any One Game

Choose any one game of your interest (e.g., Football, Basketball, Badminton, Volleyball, etc.) and make a detailed practical file. Include the following sections:

- History of the Game
- Rules and Regulations
- Fundamental Skills
- Important Tournaments
- Famous Players
- Diagram of the Playing Field/Court
- Your Own Experience or Learning

SARLA CHOPRA DAV PUBLIC SCHOOL, NOIDA
HOLLIDAY HOME WORK
CLASS 11TH PAINTING (2025-26)

- 1 Where are the Prehistoric rock paintings found in India?
- 2 Write a short note on A Roaring animal of Bhimbetka?
- 3 Write a short note on Wizard's dance?
4. Draw a picture of Landscape and colour them,
5. Draw a picture of still life and colour them,

HOLIDAY HOME WORK (SUMMER BREAK)

CLASS XI

ENGLISH CORE

1. Revise all the topics covered till date and Create mind maps in your English Note Book. Each mind map should include:

- **Title and Author**
- **Key Characters(value points for each character)**
- **Main Themes**
- **Significant Events (value points)**
- **Tone & mood**
- **Plot overview**

2. Cut and paste two real classified advertisements from a newspaper. One under Situation Vacant and one under Situation Wanted. After pasting, complete the following tasks:

A. You are the owner of Smart Steps EdTech Pvt. Ltd., Bengaluru. Draft a classified advertisement to hire a Graphic Designer.

B. Situation Wanted – Your Task:

You are a recent graduate in Mass Communication, looking for a job as a Content Creator in Delhi NCR.

3. Speech Writing- Write a speech (150–200 words) on:

“The silent Power of Reading in a noisy Digital World”

Include rhetorical questions, statistics, and personal opinion. Practice delivering it aloud.

ENGLISH PROJECT RECOMMENDED BY CBSE

FORMAT AND SUGGESTED TOPICS

Instructions regarding what to include in Project File:

- Cover page, with title of the project, school details/ details of the student
- Statement of purpose/ objective /goals
- Certificate of completion under the guidance of the teacher
- Action plan for the completion of the assigned task
- Materials such as questionnaire for the interview, written assignments, report etc
- The 800-1000 words article
- Student reflections
- Pictures/photographs that capture the positive learning experience
- List of resources/bibliography

TOPIC :1 Gender issues (Take any one Issue)

- -Highlight the plight of oppressed Gender– inequality, injustice, deprivation, agony, pain faced by them (Infographics / Data).
- -Women ideology towards gender inequality.
- -Movements against Gender inequality.

- -Discrimination at different places (home, job, school etc).
- -Kamala Das: The Voice of Indian Woman's Quest For Liberation (It is an autobiographical verse) Highlight.
- -# Me too movement.
- -How can the change be brought in the mindset of the people.
- Article in 800-1000 words on 'Gender Equality– a myth'

TOPIC 2: Unleash your real potential – be bold, be resilient, be strong (Importance of a resilient attitude)

- What do you mean by Resilient Attitude?
- Traits, qualities and characteristics of resilient person.
- How personal choices help or hinder our resilience.
- Tips for Building and Cultivating Resilience.
- Why is resilience important?
- Is Resilience a skill or character strength?
- What are the seven C's of Resilience?
- Different types of resilience
- Key component and element of resilience life
- examples of great personalities
- article in 800-1000 words on ' Unleash your real potential'

TOPIC -3: Courage is not the absence of fear but triumph over it

- -Introduction
- -Origin of the quote
- -Courage – a choice to act
- -What can one learn from fear
- -Benefits of having courage over fear
- -How and why to overcome fear
- -Fighting against fear is hard but worth it (Examples)
- -Mention some of your worst fears and how you managed to overcome them — A Questionnaire
- -Famous personalities who overcame their fear (Their motivation podcast/speech/stories)
- Article in 800-1000 words on 'Overcoming Fear'

TOPIC -4- KARMA- THE INFINITE LOOP

- Is Karma an infinite loop?
- What is karma?

- Karma- a matter of faith
- Doctrine of Karma
- Law of causation/ action and reaction/retribution
- Philosophy of Karma
- Theories about Karma– how far are the bangle makers thought on karma or destiny, justified?
- The subtle cause and effect of Karma
- Reincarnation
- Delusion
- Power of karma in relation to destiny
- The Rational of spiritual healing
- Bhagvad Geeta- (reference)
- Duty or motive of karma
- Article in 800-1000 words on ‘Designing our own destinies’

TOPIC-5 PLIGHT OF OLD-AGED PEOPLE

1. About the poet– Kamala Das
2. Poetess’ Personal Experience - Common Paradox of Human Relationships
3. Portrayal of Sensational Separation between a Mother and a Daughter

4. Plight of Old Aged People: Ugly Truth about Old Age (with photos)
5. Reasons behind the Need of Old Age Homes
6. Efforts for Stress-Free and Secured Life of Aged People
7. Visit to an Old Age Home (photos of some aged people living in such homes)
8. How to Strike a Balance between Duties and Responsibilities of Children and Society
9. Article in 800-1000 words on Role of Youth to Improve the Plight of Aged People

TOPIC -6

- **Choose an issue that has provoked a controversy like the Bhopal Gas Tragedy or the Narmada Dam Project in which the lives of the poor have been affected.**
- Bhopal gas tragedy
 - History of the Union Carbide India Limited
 - Establishment
 - History and ownership of Bhopal plant
 - What is MIC gas?
 - Storage of MIC gas at Bhopal Plant
 - Causes of Bhopal gas tragedy
 - Effect of the gas leak
 - Government's response to the tragedy
 - UCIL response to the tragedy
 - Movement and protest led by the victims of the tragedy
 - Repercussion of the tragedy
 - Media/articles/movie/—cuttings and reviews
 - Lesson learnt from the tragedy
 - Article in 800-1000 words on 'Can tragedies be avoided?'

TOPIC- 7 RACISM

1. MEANING OF RACISM
2. Types
3. Consequences (Social, Physical, Mental)
4. Racism between humans is the worst kind of Racism because...steps to stop/reduce it
5. How stopping racism can bring equality and peace
6. Racism in India/ world/LGBT community
7. Steps taken till now to stop /reduce it / awareness spread
8. Celebrities and activists participation in spreading awareness

Read the stories 'Jamaican Fragment' and 'Boyhood Days'.

All of the above deal with racial prejudices and the struggle of coloured people to rise above unruly bias, unemployment, poor healthcare, inadequate schools, and unresponsive government.

- What is the message conveyed
 - Make a comparative analysis of the texts keeping in mind the following-
 - The story of misfortune and agony
 - Difference in the situation
 - How do individuals combat the situation of adversity and how should the present hard time be fought

TOPIC -8 : Watch CNN's award-winning Planet in Peril series and Anderson Cooper 360 0 on the environment.

Write a review in 800 to 1000 words highlighting the problems dealt.

- –Like Climate change
- Vanishing habitats
- Disappearing species
- Human population growth
- Collect pictures and articles from the journals, newspaper and science magazines showing the changes
- Make a comparative report showing the changes from the past 20 years.
- Mention Role of Eight year old girl Licypriya, known as Indian ‘Greta’ for her passion towards the fight against climate change. (Take any other example)

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Summer Vacation Home Work

Class – XI (Computer Science)

1. Make a presentation on any one topic – Computer fundamentals / Cyber crime & safety
2. Do exercise questions of chapter – Computer fundamentals, Data representation & Boolean Algebra

Class – XI (Artificial Intelligence)

1. Revise chapters of employability skills- Communication skills, subject skill- AI to everyone
2. Enlist various AI tools and their features on A4 sheets
3. Attend students bootcamps for AI.

Maths holiday homework
Class XI (041)
Session 2025-26

- Do NCERT exemplar of given chapters a) sets b) Relation and functions c) Trigonometry d) Complex Numbers
- Do 4 activities each from one chapter
- Make one project on any topic from your syllabus (in a group of 3 maximum)

GEOGRAPHY HOLIDAY HOMEWORK

SESSION 2025-26

CLASS 12

ON THE OUTLINE MAP OF INDIA MARK AND LABEL THE FOLLOWING:

Chapter 1 India- Location	• Latitudinal extent of India • Longitudinal extent of India • Standard Meridian of India • Important latitude passing through India (Tropic of Cancer) • Southern Most Point of mainland of India (Kanya Kumari)
Chapter 2 Structure and Physiography	• Mountains: Karakoram Range, Garo- Khasi- Jaintia hills, Aravalli Range, Vindhyan Range, Satpura Range, Western ghats & Eastern ghats • Peaks: K2, Kanchenjunga, Nandadevi, Nanga Parvat, Namcha Barwa and Anaimudi • Passes: Shipkila, Nathula, Palghat, Bhore ghat and Thal ghat • Plateaus: Malwa, Chhotanagpur, Meghalaya and Deccan Plateau. • Coastal Plains: Saurashtra, Konkan, North and South Kanara, Malabar, Coromandel and Northern Circars • Islands: Andaman & Nicobar Islands and Lakshadweep Islands
Chapter- 3 Drainage System	• Rivers: Brahmaputra, Indus, Satluj, Ganga, Yamuna, Chambal, Damodar, Mahanadi, Krishna, Kaveri, Godavari, Narmada, Tapi and Luni • Lakes: (Identification) Wular, Sambhar, Chilika, Kolleru, Pulicat & Vembanad • Straits, Bays, Gulfs: Palk Strait, Rann of Kachch, Gulf of Kachch, Gulf of Mannar & Gulf of Khambat
Chapter-4 Climate	• Area with highest temperature in India • Area with lowest temperature in India • Area with highest rainfall in India • Area with lowest rainfall in India
Chapter-5 Natural Vegetation	(Identification on an outline map of India) Tropical evergreen, Tropical deciduous, Tropical thorn, Montane and Littoral/ Swamp forests. Wildlife reserves: (locating and labeling) • National Parks: Corbett, Kaziranga, Ranthambore. Shivpuri, Simlipal

HISTORY HOLIDAYS HOMEWORK

Prepare Project on any of the following topics in group of four as decided in the class room.

1. Islamic development
2. Mesopotamia
3. Roman Society
4. American civilisation
5. Early Man and society
6. Nomadic empire
7. Industrial Revolution
8. Changing the Cultural Tradition
9. Paths to Modernisation

ECONOMICS
HOLIDAY HOMEWORK
CLASS – XI

MULTIPLE CHOICE QUESTIONS

- 1..... is used when the sum of deviation from average should be least
a) Mean b) Mode c) Median d) None of these
2. Mean should be.....
a) Simple b) Based upon all items
c) Not capable of further algebraic d) All of these
3. Sum of deviation about mean is:
a) Zero b) Minimum
c) Maximum d) None of these
4. The most appropriate measure of central tendency in case of data of varying importance
a) Combined mean b) Weighted mean
c) Assumed mean d) All of these
5. The values of all items are taken into consideration in the calculation
a) Median b) Mode
c) Mean d) None of these

5. The number of observations in a group is 50. If the average of first 20 is 5 and remaining 30 is 4, then the average of whole group is
a) 4.1 b) 4 c) 4.2 d) 4.4
6. The value which has the greatest frequency in a series is called
a) Mean b) Range c) Mode d) Median
7. Read the following statements; Choose one of the correct alternatives
Statement 1: Mode is useful for both quantitative and qualitative data
Statement 2: Mean is used for quantitative data only.
a) Statement 1 is true and statement 2 is false
b) Statement 1 is false and statement 2 is true
c) Both statements 1 and 2 are true
d) Both statements 1 and 2 are true
8. Read the following statements; Choose one of the correct alternatives
Assertion(A): Median is graphically located through ogive.
Reason (R): Median is an arithmetic average
a) Both assertion and reason are true and reason is the correct explanation of assertion.
b) Both assertion and reason are true and reason is not the correct explanation of assertion.
c) Assertion is true and reason is false.
d) Assertion is false and reason is true.

9. The most common value in a series is
- a) Mode b) Mean c) Median d) All the above
10. Mode is found graphically by
- a) Ogive b) Histogram c) Frequency polygon d) Bar Diagram
11. Read the following statements; Choose one of the correct alternatives
- Statement 1: C.F is used for cumulative frequency.
- Statement 2: Arithmetic Mean is the positional value.
- a) Statement 1 is true and statement 2 is false
- b) Statement 1 is false and statement 2 is true
- c) Both statements 1 and 2 are true
- d) Both statements 1 and 2 are true
12. The arithmetic Mean of 1, 3, 5,6, X,10 is 6. The value of X is
- a) 10 b) 11 c) 12 d) None of these
13. If there are two groups containing 30 and 20 observations and having 50 and 60 as arithmetic means, then the combined arithmetic mean is
- a) 51 b) 54 c) 53 d) 52
14. Read the following statements; Choose one of the correct alternatives
- Assertion(A): Inclusive class interval are converted into the exclusive class interval series before calculating Arithmetic Mean.
- Reason (R): Mid-value remains the same in case of both inclusive as well as exclusive series
- e) Both assertion and reason are true and reason is the correct explanation of assertion.
- f) Both assertion and reason are true and reason is not the correct explanation of assertion.
- g) Assertion is true and reason is false.
- h) Assertion is false and reason is true.
15. To find the Median, it is necessary to arrange the data in
- a) Descending order b) Ascending order
- c) Ascending or descending order d) Any Random order

17. If Mean of a series is 32 and median is 40, what would be the value of mode?
 a) 54 b) 58 c) 56 d) 38
18. 50% of actual values will be below and 50% of actual values will be above
 a) Mode b) Median c) Mean d) Quartiles
19. Median of 2, 5, 8, 4, 9, 6, 7 is
 a) 9 b) 8 c) 2 d) 6
20. Which average is most suitable in case of calculating average intelligence of different employees in an office?
 a) Mode b) Median c) Mean d) Median and mode

SHORT ANSWER QUESTIONS

1. A class consists of 50 students, out of which 30 are girls. The mean of marks scored by girls in a test is 73 (out of 100), and that of boys is 71. Determine the mean score of the whole class.

2. Calculate the mean for the following distribution.

Class interval	10 – 25	25 – 40	40 – 55	55 – 70	70 – 85	85 – 100
Number of students	2	3	7	6	6	6

3. Calculate the median marks of students from the following distribution.

Marks	10 – 20	20 – 30	30 – 40	40 – 50	50 – 60	60 – 70	70 – 80
Number of Students	7	10	10	20	20	15	8

4. Calculate the mode as follows:

Class	10 – 20	20 – 30	30 – 40	40 – 50	50 – 60
Frequency	2	$4 = f_0$	$7 = f_1$	$6 = f_2$	1

5. Calculate median from the following series

X	3	4	5	6	7
F	3	12	18	12	3

MARKETING
HOLIDAY HOMEWORK
CLASS – XI

PROJECT

Prepare a practical file by collecting print advertisements and analysing the message conveyed in marketing of goods, services people, ideas, experience, events, places, properties, organisations and information. Suggest an alternative mode of communication to the firm and create an advertisement for the same.

OR

Identify a firm of your choice and prepare a detailed file on its micro environment.

PSYCHOLOGY
Class XI
SUMMER HOLIDAYS HOMEWORK

1. **MOVIE REVIEW**

- ✓ Watch any three movies from the list given in the class and
- ✓ write a detailed psychological review on the basis of your understanding of psychological principles.

2. **ART INTEGRATION PROJECT**

- ✓ make a chart on psychological principles.

OR

- ✓ make a short animated video on mobile addiction: causes, maintaining factors and ways to come out of it.