

Maths Summer Break Worksheet (Class-VIII)

Section A: Squares and Square Roots

1. Root Calculations

Find the value of the following:

- $\sqrt{3.1428}$
- $\sqrt{0.31428}$

2. The General's Problem

A General wishing to draw up his 64,019 men in the form of a square found that he had 10 men extra. Find the number of men in the front row.

3. Decimal Discovery

What is that decimal which when multiplied by itself gives 227.798649?

4. Perfect Squares

Find the greatest 4-digit perfect square number. Also, find the square root of that number.

Section B: Cubes and Cube Roots

5. Find the values of:

(i) $\sqrt[3]{0.008}$

(ii) $\sqrt[3]{\frac{-64}{1331}}$

(iii) $\sqrt[3]{27 \times 2744}$



6. Complex Evaluation

Evaluate the following expression:

$$\sqrt[3]{\frac{0.027}{0.008}} \div \sqrt{\frac{0.09}{0.04}} - 1$$

Section C: Exponents and Powers

7. Evaluate the following:

(i) $\left[5 \left(8^{\frac{1}{3}} + 27^{\frac{1}{3}} \right)^3 \right]^{\frac{1}{4}}$

(ii) $(1^3 + 2^3 + 3^3)^{-\frac{5}{2}}$

7. Evaluate the following:

$$(i) \left[5 \left(8^{\frac{1}{3}} + 27^{\frac{1}{3}} \right)^3 \right]^{\frac{1}{4}}$$

$$(ii) (1^3 + 2^3 + 3^3)^{-\frac{5}{2}}$$

8. Solve the given exponential equations for n :

$$(i) (\sqrt{6})^{n-2} = 1$$

$$(ii) 3^{4n} = \frac{1}{81}$$

$$(iii) 2^n + 2^n + 2^n = 192$$

$$(iv) 4^n - 4^{n-1} = 24$$

कक्षा -आठवीं
विषय -हिंदी
ग्रीष्मकालीन गृहकार्य


1-उन पाँच पक्षियों का चित्र गृहकार्य कॉपी में चिपकाएं, जो लुप्त हो रहे हैं। इनके लुप्त होने के क्या कारण हैं ?
और हम इनका संरक्षण कैसे कर सकते हैं ? लिखें।

2-अकसर पड़ोसियों में किसी न किसी बात को लेकर बहस या मतभेद होता रहता है मतभेद होने के कौन से कारण होते हैं होंगे लिखिए? एवं हमारा पड़ोसियों के प्रति कैसा व्यवहार होना चाहिए?

3-ज़ एवं फ़ पर लगे नुक्ता वाले बीस (20) शब्द ढूँढकर लिखें।



M.Ed. (Moral Education)

Summer Holiday Homework 

- 1 पाठ-1 “प्रार्थना” लिखें और याद करें।
- 2 आर्य समाज के दस नियम लिखें और याद करें।
- 3 हवन सामग्री में मिलाई जाने वाली औषधियों के नाम खोजकर लिखें।
- 4 हवन के लिए किन-किन पेड़ों की लकड़ी उपयोग होती है? पेड़ों के नाम लिखें।
- 5 “हवन के महत्व” इस विषय पर 10 वाक्य लिखें।

11:48 am



M.K. D.A.V. PUBLIC SCHOOL, CHIANKI DALTONGANJ
ENGLISH HOLIDAY HOME ASSIGNMENT 2026-27
CLASS: VIII

1. 'Granny's Tree Climbing' – Poem with Pictorial Presentation (English Literature – Chapter 2)
Learn and write the complete poem 'Granny's Tree Climbing' by Ruskin Bond.
2. Write 10 sentences naming the activities to spend quality time with your grandparents, with special reference to 'Granny's Tree Climbing'.
3. 'Tense Tree' – Grammar Project (English Practice – Chapter 1: Tenses)
Task: Draw a 'Tense Tree' flow-chart covering all 12 tenses of English grammar.

Instructions:

1. Trunk: Label it as 'TENSES'.
2. Main Branches: Divide into 3 main branches – Past, Present, Future.
3. Sub-Branches: From each main branch, draw 4 sub-branches for – Simple, Continuous, Perfect, Perfect Continuous.
4. Leaves: On each of the 12 leaves, write:
 - a) Name of the tense
 - b) Structural formula
 - c) One example sentence based on either 'Granny's Tree Climbing' or 'Changing Times'.
5. Presentation: Use color coding – Brown for Past, Green for Present, Blue for Future. Add small drawings of a clock or calendar near the roots.

4. 'Changing Times – Bridging the Generation Gap' (English Reader – Unit 1)

Make a table of activities on "Their Time Activities vs Our Time Activities" showing it in columns A and B

Write 5 activities from your grandparents' time and 5 from your time.



HOLIDAY HOMEWORK ASSIGNMENT

Subject: Computer Science | Class: VIII

Session: 2026-27

Topic: Networking (Chapter 1)

Part A: Creative Project Work

Option 1: 3D Topology Model

Construct a physical 3D model representing either a **Star Topology** or a **Bus Topology**. Use creative materials such as cardboard, string, beads, or recycled boxes to represent nodes (computers) and connecting media (cables/hubs).

Option 2: The Data Journey Poster

Design an informative flowchart poster illustrating the journey of an email from the sender's device to the receiver's inbox. Ensure you label key components: *ISP, Router, IP Address, and Data Packets*.

Part B: Theoretical Research

Complete the following comparison table in your computer notebook:

Criteria	LAN (Local Area Network)	MAN (Metropolitan Area Network)	WAN (Wide Area Network)
Geographical Area			
Data Speed			
Hardware Used			

Short Notes: Research and write 50-60 words on each of the following:

- Internet of Things (IoT) in modern homes.



- Cloud Computing and its benefits for students.
- Differences between Guided (Wired) and Unguided (Wireless) transmission media.

Part C: Identification & Analysis

1. Hardware Sketch: Draw the symbols/diagrams for the following networking devices and explain their primary function in one sentence:

- Switch
- Router
- Modem
- Gateway

2. Problem Solving Case Study:

A local library wants to connect 15 computers to share a single high-speed internet connection and a central database. Identify the type of network required and suggest the most reliable topology. Justify your answer with two reasons.

Part D: Vocabulary Flashcards

Prepare **10 Flashcards** for the following technical terms. Write the term on the front and its definition/significance on the back:

Protocol, Topology, Nodes, Ethernet, IP Address, Firewall, Server, Client, Bandwidth, Wi-Fi.



Q1. Define —

- (a) Cell
- (b) Force
- (c) Pressure
- (d) Carbonisation
- (e) Fossil fuels

Q2. Differentiate between —

- (a) Plant cell & Animal cell
- (b) Chloroplast & Chromoplast
- (c) Balanced & Unbalanced force
- (d) Contact force & Non-contact force
- (e) Renewable & Non-renewable sources of energy

Q3. Answer the questions —

(a) Why is virus called linked between living & non-living organisms?

(b) What are cilia & flagella? Write one similarity & one dissimilarity between the two of them.

(c) Describe, in brief, the process of 'coal formation'.

(d) Write the full form of CNG, LPG, and PNG.

(e) State three effects of a force. Give suitable examples.

Q4. Give reasons.

(a) Why are plant cells rigid & hard?

(b) Mountaineers may suffer from nose bleeding at high altitudes.

(c) Why are CNG & LPG cleaner fuels?

**Q5. Draw diagram of plant cell & animal cell and label them well.
(On chart paper)**

कक्षा अभ्यास:

- 1- प्रथम पाठ के श्लोकों की अन्वय के साथ लिखें।
- 2- शब्दार्थ व प्रश्नोत्तर साध करें। (पाठ-4)
- 3- प्रश्नवाचक पद 'किम्' के तीनों लिङ्गों में रूप लिखें।
- 4- पठ्, अस घातुरूप ~~स्त्री~~ लिङ्ग लिखें।
(पाँचों लकार में)

Class-8

HOLIDAY HOMEWORK Of Summer Vacations

Ques: 1) Why is there a need for resource planning? Give any three reasons.

Ques: 2) What is meant by sustainable development? Why is sustainable development the need of the hour?

Ques: 3) Explain any five major sources of information about Modern Indian History.

Ques: 4) Describe any five salient features of the Indian Constitution.

Ques: 5) Mention any five purposes which the constitution of India serves towards strengthening democracy.

Ques: 6) On an outline political map of the world, locate the following countries from whom India adopted varied features enshrined in our constitution.

(a) United Kingdom (UK) (b) United States of America (c) Canada
(d) Russia (e) Ireland.

Ques: 7) Collect the popular slogans used during the freedom struggle of India and write them on placards. Display them in your class/school.

Class 8

1. Write short notes on Artificial Intelligence, ISRO, and Renewable Energy.
2. Prepare a weekly current affairs diary for 2 weeks.
3. Draw and label the political map of India showing states and capitals.
4. Write 20 important abbreviations with their full forms.
5. Make a chart/model on any one topic: Solar System, Wonders of the World, or Indian Culture.