

Holiday Homework

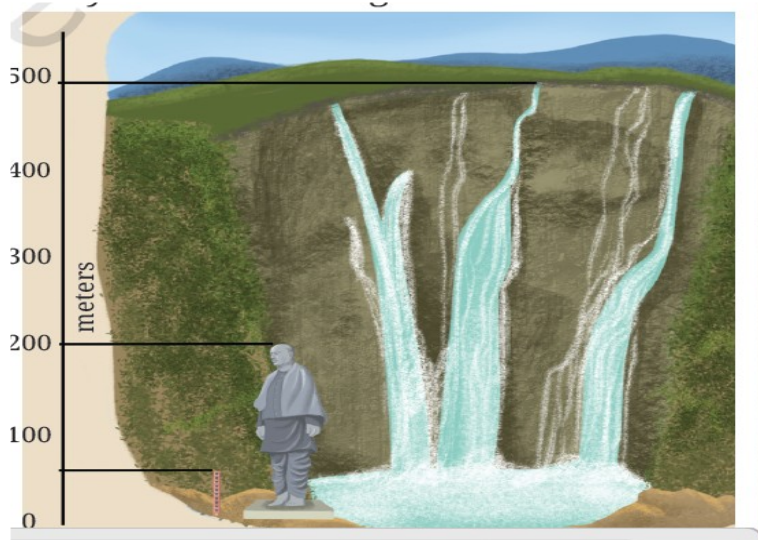
MATHEMATICS

Please Note: Do all work in maths notebook.

1. Look at the picture on the right. Somu is 1 metre tall. If each floor is about four times his height, what is the approximate height of the building?

Which is taller — The Statue of Unity or this building? How much taller?

_____m.



We can see that the height of the Statue of Unity is close to 4 times the height of Somu's building.

How much taller is the Kunchikal waterfall than Somu's building? _____m.

How many floors should Somu's building have to be as high as the waterfall?

_____meters³

2. Prepare a number system chart comparing Indian System and American system of Place values.

Indian System		American System	
1,000	One thousand	1,000	One thousand
10,000	Ten thousand	10,000	Ten thousand
1,00,000	One lakh	100,000	Hundred thousand
10,00,000	Ten lakhs	1,000,000	One million
1,00,00,000	One crore	10,000,000	Ten million
10,00,00,000	Ten crores	100,000,000	Hundred million
1,00,00,00,000	One arab or One hundred crores	1,000,000,000	One billion

Answer the following questions based on it:

➤ How many zeros does a thousand lakh have? _____

➤ How many zeros does a hundred thousand have? _____

The number 9876501234 can be easily read by placing commas first:

(a) 9,87,65,01,234 → 9 arab 87 crore 65 lakhs 1 thousand and 234
or 987 crore 65 lakh 1 thousand 234 (in the Indian system).

(b) 9,876,501,234 → 9 billion 876 million 501 thousand 234 (in the American system).

- Read the following numbers in Indian place value notation and write their number names in both the Indian and American systems:
- (a) 4050678 (b) 48121620
 (c) 20022002 (d) 246813579
 (e) 345000543 (f) 1020304050

3. Toothpick Digits

We can write digits as shown in the image below:



You can either use toothpicks or matchsticks, or just write the digits in this way, using lines to represent sticks.

To make the digit 7, three sticks are needed.

Write or make the number 5108. How many sticks are required?

- Make or write the number 42,019. It would require exactly 23 sticks.
- Starting with 42,019, add or write two more sticks, and make a bigger number. One example is 42,078. What other numbers bigger than 42,019 can you make in this way?
- Preetham wants to insert the digit '1' somewhere among the digits '4', '2', '0', '1' and '9'. Where should he place the digit '1' to get the biggest possible number?
- What other numbers can he make by placing the digit '1'?

4. Land of Tens

In the **Land of Tens**, there are special calculators with special buttons.

1. The **Thoughtful Thousands** only has a +1000 button. How many times should it be pressed to show:

- (a) Three thousand? 3 times (b) 10,000? _____
 (c) Fifty three thousand? _____ (d) 90,000? _____
 (e) One Lakh? _____ (f) _____? 153 times
 (g) How many thousands are required to make one lakh?

2. The **Tedious Tens** only has a +10 button. How many times should it be pressed to show:

- (a) Five hundred? _____ (b) 780? _____
 (c) 1000? _____ (d) 3700? _____
 (e) 10,000? _____ (f) One lakh? _____
 (g) _____? 435 times

3. The **Handy Hundreds** only has a +100 button. How many times should it be pressed to show:

- (a) Four hundred? _____ times (b) 3,700? _____
 (c) 10,000? _____ (d) Fifty three thousand? _____
 (e) 90,000? _____ (f) 97,600? _____
 (g) 1,00,000? _____ (h) _____? 582 times

(i) How many hundreds are required to make ten thousand?

(j) How many hundreds are required to make one lakh?

(k) Handy Hundreds says, "There are some numbers which Tedious Tens and Thoughtful Thousands can't show but I can." Is this statement true? Think and explore.

5. Art Integrated Project (Any State Art + Maths)

Choose any Indian folk art (Warli, Madhubani, etc.) and show how lines, shapes, angles are used.

Activities:

1. Daily Life with Large Numbers

Write down **5 examples** of large numbers you see or hear about in daily life.

Examples:

- Population of India
- Price of a luxury car
- Number of YouTube views on a popular video
- Distance between Earth and Moon
- Number of books in a large library

Write the number in **both standard form** and **word form**.

Example:

- Population of India: 1,428,627,663 → **One billion four hundred twenty-eight million six hundred twenty-seven thousand six hundred sixty-three**

2. Place Value Practice

Choose any **3 large numbers (more than 7 digits)** and:

- Write them in Indian and International number system
- Write their place value of each digit
- Write them in expanded form

Example:

7,23,45,678 → 7 crores + 20 lakhs + 3 lakhs + 40 thousand + 5 thousand + 600 + 70 + 8

3. Compare and Order

Write **5 sets** of large numbers and arrange them in **ascending** and **descending order**.

Example:

98,73,125; 87,45,123; 1,23,45,678; 9,87,65,432

4. Fun with Estimation

Estimate the answers to these questions:

- How many people live in the 5 biggest cities of India combined?
- How much money does a company make if it earns ₹15,00,000 per month for a year?
- How many digits are there in the number 5 crores?

5. Research-Based Task

Pick **one topic** from the following and write 10 interesting facts involving large numbers:

- Space (e.g., number of stars, distance to planets)

- Sports (e.g., highest scores, stadium capacities)
- Internet (e.g., number of websites, daily YouTube views)
- Money (e.g., richest people's net worth, company profits)

Use **pictures and numbers** in your presentation.

6. Creative Poster Making (Optional Bonus)

Design a colorful **poster** titled “**Large Numbers Around Us**” showing:

- At least 5 real-life examples of large numbers
- Use drawings, printed pictures, stickers, or cut-outs

Mention the number and where it is used.

संस्कृत

1 सर्वप्रथम गर्मी के अवकाश में अपनी पुस्तक खरीद लें।

2 गंगा यमुना आदि नदियों के प्राचीन नाम लिखें और याद करें।

3 पठ धातु के पांचो लकार याद करें।

4 वंदे मातरम सुजलाम सुफलाम मलयज शीतलाम

सत्य श्यामलाम् मातरम् गीत लिखे और याद करें 5 स्वतंत्रता संग्राम में शहीद पांच व्यक्तियों के नाम लिखें और किसी एक के बारे में सब विस्तार से लिखें।

6 संस्कृत छात्र प्रतिज्ञा अनिवार्य रूप से याद करें एवं लिखें।

7 संस्कृत पुस्तक के पाठ एक और पाठ 2 के शब्दार्थ याद करें।

8 संस्कृत का कोई एक चार्ट बनाएं

HINDI

ग्रीष्मकालीन गृहकार्य

कक्षा 7

- 1) पाठ्यपुस्तक के प्रथम दो पाठों का सार अपने शब्दों में लिखो।
- 2) संधि की परिभाषा एवं स्वर संधि के भेद लिखो।
- 3) संज्ञा की परिभाषा एवं भेद उदाहरण सहित लिखो।
- 4) कारक एवं उनके चिन्ह लिखो एवं याद करो।
- 5) मेरा मनपसंद कार्य विषय पर सौ शब्दों में अनुच्छेद लिखो।
- 6) कोई पाँच श्रुतिसमभिन्नार्थ शब्द लिखो।
- 7) किन्ही पाँच शब्दों के अर्थ लिखो।
- 8) आप परिवार सहित देशाटन जा रहे हैं। विद्यालय के प्राचार्य को पाँच दिन की छुट्टी के लिए प्रार्थना पत्र लिखो।

ENGLISH

Q.1. You are Samarth/Samantha who visited an orphanage of your city. Write a diary entry expressing all your feelings, emotions and few contributions that you did in support of humanity.

Q.2. You are Kartik/ Kiyara who had joined an Eco-club in your city where you were given insightful ideas for saving nature. Write an article on "Save planet, save lives".

Q.3. Your school is going to organise a summer camp for various activities contributing towards holistic development. Being a Sports Captain of your school write a brief notice giving all necessary details.

Q.4. Solve ONLY READING and GRAMMAR portions from 3 sample papers.

SCIENCE

HOLIDAY HOMEWORK CLASS 7 SCIENCE 2025

1. Prepare a multi disciplinary project (MDP) based on the topic - "CROP AND FACTORS AFFECTING CROP YIELD".

2. Prepare a working model on any scientific principle.

3. Activity - Take half tablespoon of Turmeric (Haldi) in a bowl and add 8- 10 spoons of water to it. Apply it on sheet of paper, let it dry. Now take soap or detergent solution in a bowl and make a Rangoli design using the solution with a toothpick or an ear bud .

4. On a map of India, mark the states where Iron, Gold, Aluminium and other metals are found. Paste it in HHW copy

5. Explore the metals and non-metals found in smartphones. And write how they help the phone to work properly.

6. Rahul went to Arjun's house. He saw that every room in Arjun's house is lit up with Electric bulbs. Ravi suggested him to use CFLs and LED tube lights. He also suggested him to check for the ISI mark on the bulbs and tubes before buying them.

Based on the above information, answer the following questions.

Why CFLs are better sources of light than electric bulbs?

What is the importance of ISI mark on the electric bulbs and tubes?

7. Make a simple electrical circuit using LED, switch, cell or battery and wires.
OR By using a Solar panel as a source of electrical energy, make a circuit to run a toy fan.

8. Create a three-dimensional model of the human digestive system using materials like clay, cardboard, or waste materials. Label each part and explain its function.

NOTE: Make Separate holiday homework copy.

DRAWING

Two A3 Size paintings (traditional, folk, modern, contemporary)

VOCATIONAL EDUCATION

complete project 1

Plant nursery

ARTIFICIAL INTELLIGENCE

Complete all this homework in your fair copy

1. Define Artificial Intelligence. Give two real-life examples of where AI is used around you.
2. Write three differences between Human Intelligence and Artificial Intelligence.
3. What are the three domains of AI? Write one example of each.
4. Match the following:

AI Tool

Works Like

Alexa

a) Language Translator

Google Maps

b) Voice Assistant

Google Translate

c) Navigation Tool

SOCIAL SCIENCE

- Show all the states of India and their capitals on a political map of India.
- Visit a museum, national park, or wildlife sanctuary and share your experience in a paragraph. Include details about what you saw, learned, and felt during the visit.
- Write down the names of all the countries in the world along with their capitals in your notebook.
- Read any one novel of your choice. Write a short summary of the story, its main characters, and what you liked about it.
- Develop the habit of reading a daily newspaper. Write any five important news headlines you read each week.