

SURAJ SCHOOL PATAUDI

SURAJ
EDUCATION

Summer
Vacation

Class: 7th F, F1

HOLIDAY HOMEWORK

SESSION 2026-27

Make your vacation
meaningful, fun-filled
and full of learning!



Name : _____

Class & Section : _____

Roll No. : _____

EXPLORE

LEARN

ENJOY

GROW

READ

LEARN

GROW

Class 7 Science:

Holiday Homework (Summer Vacation)

School: **Suraj School, Pataudi**

Topics: **Electric Circuits, Reproduction in Plants, Acids, Bases & Salts, Metals & Non-Metals**

I.) Multiple Choice Questions (MCQs)

1. **Which of the following is a symbolic representation of an electric cell?**
 - a) A long line and a short, thick parallel line
 - b) Two long parallel lines
 - c) A circle with an 'X'
 - d) A wavy line
 2. **In plants, the fusion of male and female gametes is called:**
 - a) Pollination
 - b) Fertilization
 - c) Seed dispersal
 - d) Fragmentation
 3. **Which of the following is a natural indicator?**
 - a) Methyl orange
 - b) Phenolphthalein
 - c) Turmeric
 - d) All of the above
 4. **A metal that exists in a liquid state at room temperature is:**
 - a) Iron
 - b) Gold
 - c) Mercury
 - d) Aluminum
 5. **Which acid is present in an ant's sting?**
 - a) Citric acid
 - b) Formic acid
 - c) Lactic acid
 - d) Oxalic acid
-

II. Fill in the Blanks

1. A combination of two or more cells is called a _____.
 2. The reproductive part of a plant is the _____.
 3. Acids turn blue litmus paper _____.
 4. The property of metals by which they can be beaten into thin sheets is called _____.
 5. An _____ is used to prevent the flow of excess current in a circuit.
-

III. True or False (10 Questions)

1. A battery consists of only one cell. ()
 2. Yeast reproduces by the process of budding. ()
 3. Bases feel soapy to touch. ()
 4. Non-metals are generally good conductors of heat and electricity. ()
 5. An electric fuse works on the heating effect of current. ()
 6. Stamens are the female reproductive part of a flower. ()
 7. Nitric acid turns red litmus blue. ()
 8. Sodium is a very reactive metal stored in kerosene. ()
 9. Pollination is the transfer of pollen from anther to stigma. ()
 10. Neutralization reaction results in the formation of salt and water. ()
-

IV. Short Answer Questions

1. **Define a Circuit Diagram.**
 2. **What is vegetative propagation? Give one example.**
 3. **Why should an ant sting be treated with calamine solution?**
 4. **Why are bell metal objects (like school bells) made of metals and not wood?**
 5. **What is the difference between self-pollination and cross-pollination?**
-

V. Long Answer Questions

1. **Explain the working of an electric bell with the help of a labeled diagram.**
2. **Describe the different methods of asexual reproduction in plants with examples.**
3. **Explain the process of Neutralization in daily life with three specific examples (e.g., indigestion, soil treatment, factory waste).**

Activity Activity / Project Work

- **Circuit Builder:** Create a simple working circuit using a cell, a small LED bulb, and a switch using paper clips
-

Class 7 English

1.Prepare a travel brochure featuring your favourite tourist destination in India. Include relevant pictures and interesting factors.

2. Write paragraph in your fair notebook given below

Benefits of morning walk

and

The Missile Man of India : APJ. Abdul Kalam.

3.Read the newspaper daily to better reading .

4.Learn and recite any English poem of your choice after the holidays.

5. Make as many words as you can from the word 'Dumbfounded'.

6. Create a new word pocket in your notebook, along with their meanings, synonyms and antonyms.

7. Learn and complete syllabus done till today.

Class 7 Mathematics

Holiday Homework

Note for Holiday Homework

Dear Students,

Holiday homework is designed to help you revise the concepts taught in class and improve your thinking skills. Complete all the questions neatly and sincerely in your mathematics notebook. Make sure your work is well-organized, clean, and submitted on time.

Read each question carefully and attempt the work independently. Students are also encouraged to practice additional questions for better understanding.

Enjoy your holidays, stay safe, and keep learning!

Best Wishes,

Mathematics Teacher

INSTRUCTIONS:

- ◆ Read all questions carefully before attempting them.
- ◆ Solve the work independently to improve your understanding and creativity.
- ◆ Draw diagrams, charts, and illustrations wherever required.
- ◆ Use colours and creative ideas to make your work attractive and informative.
- ◆ Revise the completed work regularly during the holidays.
- ◆ Parents are requested to guide and encourage their ward to complete the work on time
- ◆ Keep your Notebooks clean, organized, and properly labelled.
- ◆ Submit the holiday homework on the first day after the vacation without fail.

Practice Questions

1. Simplify: $2284/367$
2. Arrange in ascending order: $2/3$, $5/6$, $3/4$
3. Find: $5/8 + 3/16$
4. Subtract: $7/9 - 2/3$
5. Multiply: $4/7 \times 14/15$
6. Divide: $5/12 \div 10/18$
7. A ribbon of length $5\frac{1}{2}$ m is cut into pieces of $\frac{1}{2}$ m each. How many pieces are formed?
8. A tank is $3/5$ full. If 120 litres of water are present, find the capacity of the tank.
9. Which fraction is greater — $7/11$ or $9/14$? Explain without decimals.
10. Find two fractions between $3/7$ and $4/7$.
11. Simplify using BODMAS: $25 + 18 \div 3 \times 4$
12. Simplify: $(45 - 15) \times 2 + 8$
13. Find the value: $72 \div (8 + 4) \times 3 - 3 \div 3$
14. Simplify: $16 + [24 - (8 + 4)]$
15. Evaluate: $150 - (25 \times 4) + 18$
16. Make an expression using 8, 4, 2 whose answer is 10.
17. Insert brackets to make: $24 - 8 \times 2 + 4 = 40$
18. Write algebraic expressions for given statements.
 - (i). 5 times a number is less 3
 - (ii). Multiple of 5 is 6 less.
19. If $x = 5$ and $y = 3$, find $2x + 3y$.
20. Evaluate: $4m - 7$ when $m = 6$.
21. A pencil costs Rs. Z . Write the cost of 12 pencils.
22. Rahul's age is 28 years less than his mother's age . Write an algebraic expression for this
23. Find the perimeter of rectangle if length is $(2x+5)$ cm and breadth $(7x-6)$.

24. Form an expression for: 'Five less than three times a number.'
25. Write the place value of 7 in 45.782.
26. Arrange in descending order: 4.56, 4.065, 4.6, 4.506
27. Convert $\frac{3}{10}$ into decimal.
28. Add: $12.45 + 8.305$
29. Subtract: $18.7 - 9.86$
30. A shopkeeper sold 12.75 kg rice, 8.9 kg sugar and 4.085 kg pulses. Find total weight sold.
31. Explain why $0.5 = 0.50$
32. Multiply: 3.6×4
33. Divide: $25.2 \div 6$ 34. Find: 1.25×0.4
35. A rope is 15.5 m long and cut into 5 equal pieces. Find the length of each piece.
36. A car travels 12.5 km in 1 litre petrol. How far will it travel in 7.5 litres?
37. Why does multiplying by 0.1 make a number smaller?
38. Find all factors of 48.
39. Write first five multiples of 13.
40. Find the HCF of 24 and 36.
41. Find the LCM of 12 and 18.
42. Check whether 729 is divisible by 9.
43. Find the smallest number divisible by both 8 and 12.
44. A number leaves remainder 2 when divided by 5 and remainder 3 when divided by 4. Find the smallest such number.
45. Write all prime numbers between 50 and 80.
46. Write in figures: Seven crore forty-five lakh twelve thousand nine hundred eight.
47. Write 8,05,07,004 in words.
48. Arrange the numbers in ascending order: 8,45,678 ; 84,56,780 ; 8,04,567 ; 80,45,678

49. Find the difference: $9,08,76,543 - 7,89,54,321$

50. The population of two cities is 1,45,67,890 and 98,76,543. Find the total population.

51. Estimate: $7,89,45,210 + 3,12,54,998$ by rounding to nearest lakh.

52. Simplify: $(-8) + 15$. Then write its additive inverse.

53. Write first 12 terms of Fibonacci sequence

54. Multiply: $(-9) \times (-5)$

55. Write the general form of Even and odd numbers. Also verify it for the values of 12 13 and 14

56. Simplify: $(-15) + (-25) + 40$.

57. Solve using part by part and convert into tenth method.

Add : $6 \frac{2}{10}$ and $5 \frac{6}{10}$

58. The temperature was 5°C in the morning and dropped by 11°C at night. What was the night temperature?

59. Explain why $(-a) \times (-b) = ab$.

Creative Activities

(Do any five activities)

1. Draw a colourful fraction pizza using $\frac{1}{2}$, $\frac{1}{4}$ and $\frac{1}{8}$ parts.
2. Make a number line from -20 to $+20$ and show addition/subtraction of integers.
3. Prepare a shopping bill using decimal numbers and calculate the total.
4. Collect 5 large numbers from newspapers and write them in words.
5. Make an algebra poster using variables, constants and expressions.
6. Create your own divisibility rule chart.
7. Design a maths crossword using integers and fractions.
8. Make flash cards for prime and composite words.

Enjoy Your Holidays and Keep Practicing Maths!

REASONING :

Higher Order Thinking Skills (HOTS) questions are included to improve logical reasoning and analytical thinking.

Section A – Number Reasoning

1. Find the next number:
3, 6, 12, 24, ____
2. Find the missing number:
5, 10, 20, 40, ____
3. Which number does not belong?
8, 27, 64, 81, 100
4. Arrange in ascending order:
0.7, 0.07, 0.007, 7
5. The product of two numbers is 48. One number is 6. Find the other number.
6. A number when multiplied by 9 gives 117. Find the number.
7. Write the smallest 4-digit number formed using digits 5, 2, 8, and 1 without repetition.
8. Find the greatest number exactly divisible by 3, 4, and 5.
9. If the sum of two numbers is 90 and one number is 38, find the other.
10. What should be added to 567 to make it divisible by 9?

Section B – Logical Thinking Questions

1. Ravi is taller than Aman but shorter than Karan. Who is the tallest?
2. If today is Wednesday, what day will it be after 10 days?
3. Complete the pattern:
A, C, E, G, ____
4. If CAT = 24, then DOG = ?
5. A clock shows 3:15. What is the angle between the hour hand and minute hand?
6. Which fraction is greater:
 $\frac{5}{8}$ or $\frac{7}{12}$?
7. Find the odd one out:
Triangle, Square, Rectangle, Circle
8. A box contains 5 red, 3 blue, and 2 green balls. How many balls are there altogether?
9. If 4 pencils cost ₹28, what is the cost of 9 pencils?
10. A train travels 60 km in 1 hour. How far will it travel in 5 hours?

Section C – HOTS (Higher Order Thinking Skills)

1. A number is divisible by both 6 and 8. Which is the smallest possible number?
2. The sum of three consecutive numbers is 72. Find the numbers.
3. A farmer has chickens and cows. Altogether there are 20 heads and 56 legs. How many cows are there?

4. Two numbers differ by 18. Their sum is 72. Find the numbers.
5. A square has a perimeter of 48 cm. Find its area.
6. A shopkeeper gives a discount of ₹75 on a bag costing ₹650. What is the final price?
7. Find a number which when divided by 5 gives quotient 12 and remainder 3.
8. A rectangular field is 15 m long and 8 m wide. Find its perimeter.
9. The product of two consecutive numbers is 132. Find the numbers.
10. A student scored 78, 85, 92, and 95 in four tests. Find the average marks.

Section D – Challenge Questions:

1. Using digits 2, 4, 6, and 8 only once, form the greatest and smallest 4-digit numbers. Find their difference.
2. How many triangles are there in a hexagon?
3. A father is three times as old as his son. After 10 years, he will be twice his son's age. Find their present ages.
4. Find the smallest number divisible by 2, 3, 4, and 5.
5. If one side of a cube is doubled, how many times will its volume increase?
6. There are 45 students in a class. If each bench can seat 4 students, how many benches are needed?
7. A car uses 5 litres of petrol to travel 60 km. How much petrol is needed for 180 km?
8. The perimeter of a rectangle is 50 cm. Its length is 15 cm. Find the breadth.
9. Find the value of:
 $2^2 + 3^2 + 4^2$
10. A number is increased by 25% and becomes 100. Find the original number.

ग्रीष्मकालीन अवकाश गृहकार्य

कक्षा -सातवीं

विषय- हिंदी

प्रश्न 1 हिंदी पाठ्यपुस्तक पाठ 1 से 4 याद करें।

प्रश्न 2 हिंदी व्याकरण पाठ 1 से 5 याद करें।

प्रश्न 3 साफ व सुंदर लेख में 10 सुलेख लिखिए
तथा रोजाना एक पेज पढ़ें।

प्रश्न 4 संधि व उसके भेदों को चार्ट पर दर्शाइए।

प्रश्न 5 आत्मरक्षा व आत्मसम्मान के लिए हमें
क्या करना चाहिए।

प्रश्न 6 अपनी कोई प्रिय कविता चित्र सहित लिखिए
और कंठस्थ कीजिए।

प्रश्न 7 अपने प्रिय नेताओं का चित्र सहित परिचय दीजिए।

 प्रश्न 8 मेरे सपनों का पुस्तकालय

निर्देश: अपने सपनों के पुस्तकालय का चित्र बनाकर उसके बारे में 8-10 वाक्य लिखिए।

 प्रश्न 9 पर्यावरण संरक्षण

निर्देश: पर्यावरण संरक्षण पर एक पोस्टर बनाइए तथा एक अनुच्छेद (100 शब्द) लिखिए।

 प्रश्न 10 उपसर्ग और प्रत्यय दोनों के योग से बनने वाले 20 शब्द लिखिए

Holiday Homework – Class 7th Computer

Topic: Binary Numbers & Cybersecurity

Instructions: *Answer all questions neatly in your notebook. Use diagrams/examples wherever required.*

Binary Numbers

1. What are binary numbers? Why are they used in computers?
2. Write the binary number system and explain its base.
3. Convert the following binary numbers into decimal numbers: a) 1010 b) 1101
4. Convert the following decimal numbers into binary numbers: a) 7 b) 12
5. Differentiate between binary numbers and decimal numbers.

Cybersecurity

6. What is cybersecurity? Why is it important?
7. Write any five cyber safety rules for students.
8. What is a strong password? Write any four characteristics of a strong password.
9. Differentiate between a virus and malware.
10. Explain cyberbullying and mention ways to stay safe online.

Holiday Homework

Day 3 : paste pictures of different tribal communities like santhal , baiga , bhil , khorku with the name of the state they belong to (on A3 size sheet).

Day 5 : make a chart of maximum temperature and minimum temperature of the day of your place of residence. Calculate the range of temperature for the month of June.

Day 7: imagine you are a ruler of one of the mahajanapada of ancient times , design a punch marked coin for your kingdom using different symbols and give reason for your choice .

Day 9: visit a religious place near your residence, write a short note about your experience and your observations from the visit and paste your pictures on A4 size sheet.

Day 11: paste pictures of 12 jyotirlingas in your notebook write few lines about it

Day 17: watch a video on samundra manthan and read about kumbh mela .

Day 21: observe your mother's daily expenditure on different things like online purchases or marketing and make a chart of it in your notebook.

Day 25: imagine you want to start your own company , choose any one product of your choice you want to sell in the market and design a colourful logo for it

Activity: visit any religious place in your vacations with your family paste its picture on A4 size sheet and write your experience about the visit. Decorate the sheet accordingly and paste your pictures.

Revise May month syllabus done till now.

Class 7

Holiday Homework - Sanskrit

1. शब्दार्थ लिखिए

विद्यालयः - स्कूल

शिक्षकः - अध्यापक

छात्रः - विद्यार्थी

उद्यानम् - बगीचा

नदी - नदी

पर्वतः - पहाड़

मित्रम् - दोस्त

पुस्तकालयः - पुस्तकालय

प्रातःकालः - सुबह का समय

भोजनम् - खाना

2. संस्कृत में अनुवाद कीजिए

मैं विद्यालय जाता हूँ।

→ अहं विद्यालयं गच्छामि।

राम खेलता है।

→ रामः क्रीडति।

सीता पुस्तक पढ़ती है।

→ सीता पुस्तकं पठति।

हम प्रतिदिन पढ़ते हैं।

→ वयं प्रतिदिनं पठामः।

सूर्य पूर्व दिशा में उगता है।

→ सूर्यः पूर्वदिशि उदेति।

3. रिक्त स्थान पूरयत

अहं _____ पठामि।

बालकः उद्याने _____।

सीता जलं _____।

गजः वनं _____।

छात्राः विद्यालयं _____।

4. संस्कृत में पाँच वाक्य लिखिए

मम नाम _____ अस्ति।

अहं सप्तमकक्षायां पठामि।

मम विद्यालयः विशालः अस्ति।

मम प्रियः विषयः संस्कृतम् अस्ति।

अहं प्रतिदिनं योगं करोमि।

5. धातुरूप लिखिए (लट् लकार)

पठ् धातु

पठामि

पठसि

पठति

पठावः

पठथः

पठतः

पठामः

पठथ

पठन्ति

6. श्लोक लिखिए एवं याद कीजिए

विद्या ददाति विनयं

विनयाद् याति पात्रताम्।

पात्रत्वात् धनमाप्नोति

धनात् धर्मं ततः सुखम्॥

7. चित्र देखकर पाँच संस्कृत शब्द लिखिए

वृक्षः

पुष्पम्

फलम्

पक्षी

सूर्यः

8. परियोजना कार्य (Project Work)

“मम विद्यालयः” विषय पर 8-10 पंक्तियाँ संस्कृत में लिखिए तथा चित्र बनाइए।