

असतो मा सद्गमय, तमसो मा ज्योतिर्गमय।।



SUMMER VACATION ASSIGNMENT 2026 CLASS-X

Time To Shine

Books are closed, the Sun is bright,
Summer calls with warm daylight.
So, chase the clouds, enjoy the sun,
But keep in mind- we are not yet done.

The tasks we give with love and care,
To keep your curious minds aware.
Read and write, create and play,
Come back stronger, come what may.

We'll wait for you, with doors open wide,
With stories of Summer and brighter pride.

Summer Vacation

MAKE YOUR SUMMER COUNT!

Dearest Hallmarkite!

Summer break is your time to relax, but also to grow in ways textbooks don't teach. Here's how to make these 30+ days count:

1. REST WELL, RISE WELL

- Sleep 8-9 hours. No late-night scrolling!
- Start your day early at least 3 times a week. Morning energy is different!.

2. LEARN WITHOUT PRESSURE

Pick any 2 from this list:

- Read 2 books — story, comics, or GK. No school books!
- Learn 1 new skill — cooking a dish, cycling, origami, coding, guitar, calligraphy
- Help at home 20 mins daily — water plants, set the table, fold clothes. Real-life skills matter!
- Journal 3 lines daily — “Today I felt... I learned... I'm grateful for...” Builds self-awareness!

3. BODY & MIND FITNESS

- 60 mins physical activity daily — dance, badminton, skipping, walk with family. Do it before 9 am or after 6 pm. Beat the heat!
- Screen limit: 1.5 hours max for fun. Use the rest to create, not just consume.

4. FAMILY & ROOTS

- Talk to parents/grandparents. Ask them one story from their childhood each week.
- Learn one recipe or one song from your mother tongue/culture.

5. GIVE BACK

- Teach something to your younger sibling/cousin or house help's child.
- Do 1 act of kindness weekly — feed birds, save water, plant a sapling.

Come back with tan lines, new skills & stories and big smiles, not just completed notebooks.

A NOTE FOR THE PARENTS

Please support your child in following this without pressure. The goal is joyful learning and family bonding. Let them get bored sometimes — that's where creativity starts. Avoid over-scheduling with camps.

Thank you for partnering with us!

Best wishes

HALLMARK TEAM

NOTE: DO ALL THE WORK IN YOUR RESPECTIVE SUBJECT NOTEBOOKS OR AS DIRECTED.

ENGLISH

Q.1 Do a visual representation of any one of the following poems from the NCERT Book – First Flight

And present it in the class.

1. A Tiger in the Zoo
2. Dust of Snow
3. Amanda!
4. Fire and Ice

How to do?

- Use your imagination to convert the poem into an artistic representation, for example, collage making, using pictures from magazines or newspapers, or a hand-drawn visual to be presented in class.
 - Your artwork should be self-explanatory. Mention what you've depicted, why you chose that idea, and how it brings out the essence of the poem.
- Where to do?
 - A3 Size sheet

Q.2 Vocabulary Builder

- Create a mini-dictionary with 30 new words (alphabetical order)
 - Definitions and usage in sentences
- Make a Word Wall:
 - Choose 10 idioms/phrases (e.g., raining cats and dogs, break the ice)
 - Illustrate and explain each in 1 sentence

Literature Exploration

Q.3 Choose any chapter (from First Flight) and do the following:

- Write summary in 100–150 words
- Character sketch of any two characters with evidence from the text
- Theme/Moral of the chapter in 1 paragraph

Book Review

Q.4 Choose any one book:

- The Diary of a Young Girl – Anne Frank
- The Boy in the Striped Pajamas – John Boyne
- Malala – My Story of Standing Up for Girls' Rights

Write:

- Title & Author
- Summary in 150–200 words
- Characters
- Message/Moral
- What you liked/disliked

LISTENING ACTIVITY:

- Listen to these talks of wonderful people every week.
<https://youtu.be/C5EG1-w7fYo>
Josh talk by Arunimna Sinha
- No one can stop you if you are determined in your life.
https://youtu.be/7fIL5s_Kq68
- Dr. APJ Abdul Kalam's Life Advice Will Change Your Future (MUST WATCH) Motivational Speech
<https://youtu.be/xQjp8wPylFs>
- Sachin Tendulkar's farewell speech showing gratitude towards everyone who contributed in his life. Learn and practice the habit of Gratitude. It brings magical change in life.
<https://youtu.be/w1V3gZv0ebY>
- Speech by Gaur Gopal Das. Avoid negativity. Stop complaining. Be happy for what you have.

हिंदी

व्याकरण: पदबंध, समास एवं मुहावरे (लिखकर दोहराई करें।)

लेखन कौशल: अनुच्छेद लेखन करें : 'स्वच्छता में आम आदमी की भूमिका'

पत्र लेखन करें: आप B-43, आकाश विहार, दिल्ली निवासी राजन/रम्या हैं। हर साल होने वाली 'परीक्षा पे चर्चा' पर अपने विचार व्यक्त करते हुए किसी प्रतिष्ठित समाचार पत्र के संपादक को पत्र लिखिए।

सूचना लेखन करें: गतिविधि अधिकारी की ओर से 60 शब्दों में सूचना लिखिए कि विद्यालय के सभा सदन में अंतिम दो कालांशोंमें हिंदी व अंग्रेजी की कविता प्रतियोगिता होगी।

साहित्य: संचयन- पाठ 3 पढ़ें।

MATHEMATICS

Q.1 Solve the question paper of PT-1 in the separate notebook.

Q.2 Solve the following questions in your Mathematics notebook:

1. Find the HCF and LCM of 6, 72 and 120 using fundamental theorem of arithmetic.
2. Find the largest number that divides 2053 and 967 and leaves a remainder of 5 and 7 respectively.
3. Two numbers are in the ratio 21 : 17. If their HCF is 5, find the numbers.
4. Can we have any $n \in \mathbb{N}$, where $12n$ ends with the digit zero?
5. Prove that $\sqrt{5}$ is an irrational number.
6. Find HCF and LCM of 404 and 96 and verify that $\text{HCF} \times \text{LCM} = \text{Product of the two given numbers}$
7. Given that $\sqrt{2}$ is irrational, prove that $(5 + 3\sqrt{2})$ is an irrational number.
8. On a morning walk three persons step off together and their steps measure 40 cm, 42 cm, 45 cm, what is the minimum distance each should walk so that each can cover the same distance in complete steps?
9. There are 576 boys and 448 girls in a school that are to be divided into equal sections of either boys or girls alone. Find the total number of sections thus formed.
10. For what value of p , (-4) is a zero of the polynomial $x^2 - 2x - (7p + 3)$?
11. If $(x + a)$ is a factor of $2x^2 + 2ax + 5x + 10$ find a .

12. Find the zeroes of the quadratic polynomial $5x^2 - 4 - 8x$ and verify the relationship between the zeroes and the coefficient of the polynomial.
13. If one zero of the polynomials $(a^2 - 9)x^2 + 13x + 6a$ is reciprocal of the other, find the value of 'a'.
14. If α and β are zeroes of the quadratic polynomial $x^2 - 6x + a$; find the value of 'a' if $3\alpha + 2\beta = 20$.
15. If α and β are the zeroes of a quadratic polynomial $x^2 + x - 2$ then find the value of $\frac{1}{\alpha} + \frac{1}{\beta}$
16. Find the value(s) of k for which the equation $x^2 + 5kx + 16 = 0$ has real and equal roots.
17. The taxi charges in a city comprise of a fixed charge together with the charges for the distance covered. For a journey of 10 km the charge paid is Rs. 75 and for a journey of 15 km the charge paid is Rs. 110. What will a person have to pay for travelling a distance of 25 km?
18. The sum of the digits of a two-digit number is 9. The number obtained by reversing the order of digits of the given number exceed the given number by 27. Find the given number.
19. A motor boat whose speed is 24 km/hr in still water takes 1 hr more to go 32km upstream than to return downstream to the same spot. Find the speed of the stream.
20. Solve the following system of linear equations by substitution method: $2x - y = 2$; $x + 3y = 15$
21. Solve the following system of equations graphically for x and y: $3x + 2y = 12$; $5x - 2y = 4$. Find the co-ordinates of the points where the lines meet the y-axis.
22. Determine graphically the co-ordinates of the vertices of triangle, the equations of whose sides are given by $2y - x = 8$, $5y - x = 14$ and $y - 2x = 1$
23. Solve the following system of equations graphically: Find the area of the triangle so formed by two lines and x-axis.
24. A part of monthly hostel charges in a college is fixed and the remaining depends on the number of days one has taken food in the mess. When a student 'A' takes food for 22 days, he has to pay Rs. 1380 as hostel charges; whereas a student 'B', who takes food for 28 days, pays Rs. 1680 as hostel charges. Find the fixed charges and the cost of food per day.
25. Places A and B are 80 km apart from each other on a highway. A car starts from A and another from B at the same time. If they move in same direction they meet in 8 hours and if they move towards each other they meet in 1 hour 20 minutes. Find the speed of cars.
26. A plane left 30 minutes late than its scheduled time and in order to reach the destination 1500 km away in time, it had to increase its speed by 100 km/h from the usual speed. Find its usual speed
27. A motor boat whose speed is 18 km/hr in still water takes 11r more to go 24 km upstream than to return downstream to the same spot. Find the speed of the stream. A train travels at a certain average speed for a distance of 63 km and then travels at a distance of 72 km at an average speed of 6 km/hr more than its original speed. if it takes 3 hours to complete total journey, what is the original average speed?
28. Find the value of k, for which one root of the quadratic equation $kx^2 - 14x + 8 = 0$ is 2.
29. If $x = 3$ is one root of the quadratic equation $x^2 - 2kx - 6 = 0$, then find the value of k
30. If $ad \neq bc$, then prove that the equation $(a^2 + b^2)x^2 + (ac + bd)x + (c^2 + d^2) = 0$ has no real roots.
31. Find the value of 'p' for which the quadratic equation $p(x - 4)(x - 2) + (x - 1)^2 = 0$ has real and equal roots.
32. The sum of two numbers is 34. If 3 is subtracted from one number and 2 is added to another, the product of these two numbers becomes 260. Find the numbers.

33. In a class test, the sum of Arun's marks in Hindi and English is 30. When he got 2 marks more in Hindi and 3 marks less in English, the product of the marks would have been 210. Find his marks in the two subjects.
34. A person on tour has Rs.360 for his expenses. If he extends his tour for 4 days, he has to cut down his daily expenses by Rs.3. Find the original duration of the tour.
35. If $x = a$ and $y = b$ is the solution of the pair of equations $x - y = 2$ and $x + y = 4$, find the values of a and b .
36. The age of the father is twice the sum of the ages of his two children. After 20 years, his age will be equal to the sum of the ages of the children. Find the age of the father
37. Find whether 55 is a term of the AP: 7, 10, 13 ...or not. If yes, find which term it is.
38. Find the 20th term of the AP whose 7th term is 24 less than the 11th term, first term being 12.
39. The sum of the 5th and the 7th of an AP is 52 and the 10th term is 46. Find the AP.
40. If the 9th term of an AP is zero, Prove that its 29th term is twice its 19th term.
41. Determine the A.P. whose third term is 16 and 7th term exceeds the 5th term by 12.
42. Which term of the A.P. 3, 15, 27, 39, will be 120 more than its 21st term?
43. If seven times the 7th term of an A.P. is equal to eleven times the 11th term, then what will be its 18th term?
44. Find how many integers between 200 and 500 are divisible by 8.
45. Solve for x : $1 + 5 + 9 + 13 + \dots + x = 1326$
46. Find the middle terms of the A.P. 7, 13, 19 241.
47. The first term of an A.P. is -5 and the last term is 45. If the sum of the terms of the A.P. is 120, then find the number of terms and the common difference.
48. The sum of four consecutive numbers in A.P. is 32 and the ratio of the product of the first and last terms to the product of two middle term is 7 : 15. Find the numbers
49. A manufacturer of TV sets produced 720 TV sets in the fourth year and 880 TV sets in the eighth year. Assuming that the production increases uniformly by a fixed number every year, find the production in the tenth year and the total production in the first seven years.
50. Ananya saves Rs. 24 during the first month Rs. 30 in the second month and Rs. 36 in the third month. She continues to save in this manner.

On the basis of above information answer the following questions.

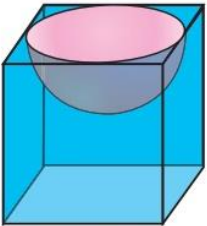
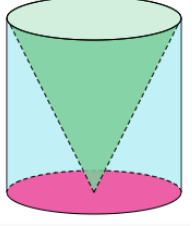
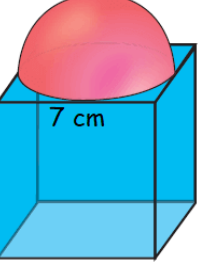
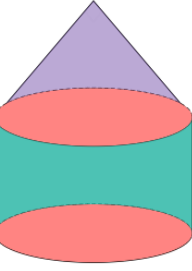
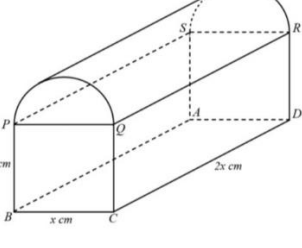
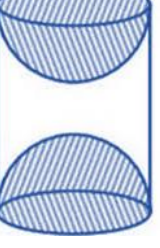
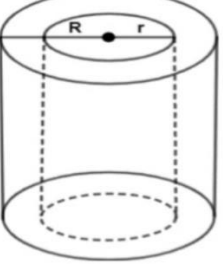
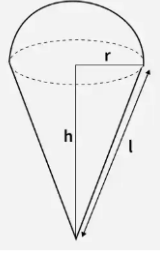
- (i) Whether the monthly savings of Ananya form an AP or not? If yes then write the first term and common difference.
- (ii) What is the amount that she will save in 15th month?
- (iii) In which month, will she save Rs. 66?
- (iv) What is the common difference of an AP whose n th term is $8 - 5n$?

Q.3 Multi-disciplinary Projects:

- (A) Make the Mind Map of Ch:4 Quadratic Equation
- (B) Make a 3D-model of any one of the following combinations of two solid figures and find its surface area and volume.

Summer
Vacation

Note: Plagiarism will not be accepted.

ROLL NUMBER	COMBINED FIGURES	ROLL NUMBER	COMBINED FIGURES
1-4		5-8	
9-12		13-16	
17-20		21-24	
25-29		30-34	

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SCIENCE

Do chapters-1, 5 & 9 of NCERT Exemplar Problems Science in the Science Notebook.

SOCIAL SCIENCE

- Revise all the chapters done in the Class thoroughly.
- Portfolios:

CONSUMER RIGHTS: Laws in favour of consumer

ASSAM: Cultural heritage

POLITICAL PARTIES: Understand the process of parties getting elected.

Know the significance of the right to vote and exercise the duties as citizens of a nation.

Examine the role, purpose and no. of Political Parties in Democracy.

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