Estd. 1994

SANT NISCHAL SINGH PUBLIC SCHOOL

LADWA (KURUKSHETRA)

SUMMER VACATION

HOLIDAY HOMEWORK

(2025-26)

CLASS - VIII

HOLIDAYS' HOMEWORK
Class –VIII

English

1) Be a Reading Detective!

🕵️ Solve five comprehension passages from BBC Module 1.

(Hint: Pretend you're solving a mystery! Read carefully and crack the clues.)

🎆 2) Story Time

Imagine you attended a carnival called the 'Celebration of Light'. Write a story (with pictures on A4 sheet) narrating how this festival originated and what events led to its creation. Write in about100 to 120 words.

3)🧘 Have Fun and Make A Poster

*Make a poster on how yoga is beneficial in life.(A4 sheet)

4)📚 To Express Much in a Few Words

*Write a summary of chapter 5 and 7 of literature book on A4 sheet

 ROLL NUMBER 1 TO 8

   *Describe Your Favourite Book

 Write a short paragraph (100–150 words) describing your favourite English book. Include why you like it, your favourite character, and the lesson it teaches.

Picture: A photo or drawing of the book cover or your favorite scene from the book.

ROLL NUMBER 9 TO 16

   *Create a Character Sketch

 Choose a character from a story you've read in class. Write a character sketch describing their personality, appearance, and actions.

Picture: Draw or paste a picture of how you imagine the character looks.

ROLL NUMBER 17 TO 24

   *Write a Letter to Your Future Self

Write an informal letter to yourself 10 years from now. Describe your current life and your hopes for the future.

Picture: Add a photo of yourself or a drawing showing your dreams (like a career, place you want to visit, etc.).

ROLL NUMBER 25 TO 35

*My Dream Vacation (Paragraph Writing)

Write a paragraph about where you would love to go on vacation and why.

Picture: Paste or draw a picture of your dream destination.

Hindi

1. अपनी कोई अविस्मरणीय बस यात्रा के बारे में लिखें।

2. हरियाणा और तेलंगाना के धार्मिक स्थलों और वेशभूषा पर एक परियोजना तैयार करें।

3. अपने नाम के प्रथम अक्षर से तीन नए सार्थक शब्दों का निर्माण कीजिए एवं प्रत्येक शब्द के दो -दो पर्यायवाची शब्द(A4 sheet) पर लिखिए।

Revise all grammar topic Marked in the class.

Mathematics

1. Learn and Write tables from 2 to 20.

2. Understand about different types of numbers. And draw a chart on types of numbers.

3. Watch a movie 'Ramanujan' on youtube and write some lines that he has done in the field of mathematics.

4. Draw all 2-D and 3-D shapes and write down their formulas related to perimeter , areas and volumes . Learn them.

5.Dopracticeofchapter-1(Rationalnumbers)andchapter-2(linearequationsinonevariable)forteston10july,2025.

Models

For class 8th A and 8th B

1. 3D Geometry Shapes with Volume and Surface Area

Model: Create cubes, cylinders, cones, and spheres using cardboard or paper.

Concepts: Volume, surface area, and nets of 3D shapes.

2. Pythagoras Theorem Working Model

Model: Use squares built on the sides of a right triangle with sliding pieces to show $a^2 + b^2 = c^2$.

Concepts: Pythagorean Theorem, geometry.

3. Algebraic Identities with Paper Grids

Model: Use colored square papers to represent $(a + b)^2 = a^2 + 2ab + b^2$.

Concepts: Visual proof of algebraic identities.

4. Coordinate Geometry on a Pegboard

Model: Create a coordinate plane using a cardboard grid and string/rubber bands to plot points.

Concepts: Coordinates, quadrants, distance between points.

==For Class - 8th C and 8th D==

1. Probability Spinner

Model: A spinning wheel with color sections to demonstrate probability.

Concepts: Theoretical vs experimental probability.

2. Bar and Pie Chart Using Cardboard

Model: Show data representation using real objects or graphs built from colored cardboard.

Concepts: Data handling, interpretation, and statistics.

3. Math in Daily Life (Budget Model)

Model: Simulate a monthly budget using charts and graphs for expenses and income.

Concepts: Percentages, addition/subtraction, logical reasoning.

4. Number Line Game (Integers and Operations)

Model: A long number line on a board where players move forward/backward with dice.

Concepts: Positive/negative numbers, addition/subtraction of integers.

ART Integration- ==Compulsory for all==

Climatic Comparison & 3D Model

Topic: Weather patterns, rainfall, and crop growth.

Activity: Build a double bar graph or pie chart which depicts the humidity of two states haryana and Telangana. (For one week)

Art Integration: Use clay, paper-mâché, or collage to create landscapes of both states.

HOLIDAYS HOMEWORK
CLASS-VIII
SUBJECT-MATHS

1. For what value of x , the following statement is true?

$$1\frac{1}{6} \times 1\frac{2}{9} = \frac{11}{9} \times x$$

2. Sudha had Rs. 100 with her. She bought $3\frac{1}{2}$ liters of milk at Rs. $22\frac{1}{2}$ per liter. How much money is left with her?

3. What should be subtracted from $(\frac{3}{4} - \frac{2}{3})$ to get $\frac{-1}{6}$?

4. Simplify:

$(\frac{13}{9} \times \frac{-15}{2}) + (\frac{7}{3} \times \frac{8}{5}) + (\frac{3}{5} \times \frac{1}{2})$

5. Verify the property:

$x \times (y + z) = x \times y + x \times z$ by taking

   a)   x=$\frac{-3}{7}$,   y=$\frac{12}{13}$,   z=$\frac{-5}{6}$

   b)   x=$\frac{-3}{4}$,   y=$\frac{-5}{2}$,   z=$\frac{7}{6}$

6. Divide the sum of $\frac{-13}{5}$ & $\frac{12}{7}$ by the product of $\frac{-31}{7}$ & $\frac{-1}{2}$

7. By what number should $\frac{-3}{4}$ be multiplied in order to produce $\frac{2}{3}$?

8. Divide the sum of $\frac{65}{12}$ & $\frac{12}{7}$ by their difference.

9. Find 6 rational numbers between $\frac{3}{5}$ & $\frac{3}{4}$

10. Nine times the reciprocal of a rational number is equal to 6 times the reciprocal of 17. Find the rational number.

11. Simplify:

   a) $(4^4 \times 5^{-2})(4^2 \div 5^2)$

   b) $5x^2 \div 15(xy)^2$

12. Find x so that $\left[\left(\frac{1}{3}\right)^{-2} \times \left(\frac{1}{3}\right)^{-5}\right] = \left(\frac{1}{3}\right)^{2x+1}$

13. By what number should $\left(\frac{5}{7}\right)^{-5}$ be multiplied so that the product is 1?

14. By what number should $(-15)^{-1}$ be divided so that the quotient be equal to $(-5)^{-1}$?

15. If the diameter of the sun and the earth are 1.4×10^9 meters and 1.275×10^7 meters respectively. Compare the two.

16. Find the least number which must be added to 306452 to make it a perfect square.

ASSIGNMENT QUESTIONS
CLASS VIII: CHAPTER - 1
RATIONAL NUMBERS

1. Simplify: (i) $\dfrac{-2}{5} - \left(\dfrac{-3}{10}\right) - \left(\dfrac{-4}{15}\right)$ (ii) $\dfrac{5}{3} - \dfrac{7}{6} + \left(\dfrac{-2}{3}\right)$ (iii) $\dfrac{-3}{2} + \left(\dfrac{5}{4} - \dfrac{7}{4}\right)$

2. Verify that $(x \times y)^{-1} = x^{-1} \times y^{-1}$ when $x = \dfrac{-2}{3}$ and $y = \dfrac{-3}{5}$

3. If you subtract $\dfrac{1}{2}$ from a number and multiply the result by $\dfrac{1}{2}$, you get $\dfrac{1}{8}$. What is the number?

4. Three consecutive integers are such that when they are taken in increasing order and multiplied by 2, 3, and 4 respectively, they add up to 74. Find these numbers.

5. Represent the following rational numbers on the number line
   (a) $-\dfrac{1}{4}$ (b) $-1\dfrac{1}{5}$ (c) $-3\dfrac{8}{5}$

6. Represent the following rational numbers on the number line
   (a) $-\dfrac{7}{10}$ (b) $-5\dfrac{3}{5}$.

7. Find two rational numbers between (i) –2 and 2. (ii) –1 and 0.

8. Insert six rational numbers between (i) $-\dfrac{1}{3}$ and $-\dfrac{2}{3}$ (ii) $\dfrac{1}{4}$ and $\dfrac{1}{2}$.

9. Arrange the following numbers in ascending order: $\dfrac{4}{-9}, \dfrac{-5}{12}, \dfrac{7}{-18}, \dfrac{-2}{3}$

10. Arrange the following numbers in descending order: $-\dfrac{5}{6}, -\dfrac{7}{12}, \dfrac{-13}{28}, \dfrac{23}{-24}$

11. Represent $4\dfrac{2}{3}$ on the number line.

12. What number should be added to $\dfrac{-7}{8}$ to get $\dfrac{4}{9}$?

13. The sum of two rational numbers is $\dfrac{-1}{2}$. If one of the numbers is $\dfrac{5}{6}$, find the other.

14. What number should be subtracted from $\dfrac{-2}{3}$ to get $\dfrac{-1}{2}$?

15. Divide the sum of $\dfrac{13}{5}$ and $\dfrac{-12}{7}$ by the product of $\dfrac{-31}{7}$ and $\dfrac{-1}{2}$.

16. The product of two rational numbers is $\dfrac{-16}{9}$. If one of the numbers is $\dfrac{-4}{3}$, find the other.

17. Find three rational numbers between 4 and 5.

18. Find three rational numbers between $\dfrac{2}{3}$ and $\dfrac{3}{4}$.

19. Find the HCF of $\dfrac{9}{10}, \dfrac{12}{25}, \dfrac{18}{35}, \dfrac{21}{40}$.

2. Linear Equations in One Variable

Q1 Solve the equation: $\dfrac{1}{x} + \dfrac{2}{x} = 3$

Mark (1)

Q2 The two third of a number increased by 9 equals 19. Find the number.

Mark (1)

Q3 Solve the equation: $\dfrac{6}{2x - (3 - 4x)} = \dfrac{2}{3}$

Mark (1)

Q4 Solve the equation: $\dfrac{2x}{3x + 1} = -3.$

Mark (1)

Q5 Solve the equation: $5x - 3 = 3x - 5$

Mark (1)

Q6 Solve the equation: $\dfrac{5x - 7}{3x} = 2$

Mark (1)

Q7 Solve the equation: $\dfrac{x}{5} + 1 = \dfrac{1}{15}$

Marks (2)

Q8 Solve the equation: $x - 2x + 2 - \dfrac{16}{2}x = 3 - \dfrac{7}{2}x$

Marks (2)

Q9 Solve the equation: $\dfrac{x^2 + 4}{3x^2 + 7} = \dfrac{1}{2}$

Marks (2)

VIII – MATHS WORKSHEET

Square and Square Roots

1-Which of the following numbers are perfect squares?

(a)3364   (b)4489   (c)4358

2-Using the property of squares , find the value of the following.

(a)$24^2 - 23^2$ (b)$50^2 - 49^2$ (c)$105^2 - 104^2$

3-Without adding find the sum.

(a)1+3+5+7+9

(b)1+3+5+7+9+11+13+15_17+19+21+23+

4-Find the square root of the following by prime factorisation method.

(a)1024   (b)8836   (c)8464

5-Find the smallest number by which 2475 must be multiplied to get a perfect square .

6-4096 soldiers are arranged in an auditorium in such a manner that there are as many soldiers in a row as there are rows in the auditorium.How many rows are there in the auditorium?

7-Find the least perfect square exactly divisible by each one of the numbers 4, 5, 10.

8-Find the least square number exactly divisible by each one of the numbers 6, 9, 10, 15 and 20 .

9-Find the least number which must be added to 4215 to make it a perfect square.

10-Find the lest number which should be subtracted from 984 to make it a perfect square .Also find the square root of this perfect square.

11-The area of the square field is $8464m^2$. A man takes 3 rounds of this field. Find the distance covered by him.

12-Find the square root of the following decimal numbers.

(a)72.25   (b)86.49   (c)75.69   (d)9.61   (e)0.16

13-   P⌃

Solve the equations and leave your answers as simplified fractions or as decimals.

Section A

1) $\dfrac{2x+5}{3} = 11$

2) $\dfrac{8-3x}{2} = 5$

3) $\dfrac{5-9x}{6} = -2$

4) $\dfrac{7x+6}{3} - 9 = -12$

5) $8x + \dfrac{1-4x}{8} = 7$

6) $\dfrac{5}{x} = -6$

7) $\dfrac{11}{4x} + 9 = 3$

8) $5 - \dfrac{3x}{4} = 8x$

9) $2 + \dfrac{4x}{3} - 7 = 1$

10) $4 - \dfrac{3x}{2} = 3x + 5$

11) $6 - \dfrac{2}{x} = 10$

12) $4 - \dfrac{2x}{9} + x = -1$

Section B

1) $4(2x-3) = 8(2x+5)$

2) $3(4x-5) = 5(2x-5)$

3) $8(6x+2) = 5(x-2)$

4) $2(3x-4) = 7(11-2x)$

5) $7(5-x) = -4(x-11)$

6) $-4(x-8) = -6(4+3x)$

7) $7(4-3x) = 2(8x-9)+6$

8) $-6(3-4x) + 2x = 8(x+11)$

9) $3(2x-6) = 3-4(3-x)$

10) $9(2x-1) - 3x = 3(12+x)$

11) $4x - (2x-8) = 5(1+2x)$

12) $10 - 6(8x-2) = 9x - (3+4x)$

Section C

1) $\dfrac{5x-2}{3} = \dfrac{4x+1}{2}$

2) $\dfrac{7x-8}{5} = \dfrac{2x+5}{4}$

3) $\dfrac{-8x-1}{2} = \dfrac{5-3x}{6}$

4) $\dfrac{5(x+11)}{3} = \dfrac{3(1+x)}{2}$

5) $\dfrac{3(2+5x)}{4} = \dfrac{2(6x-3)}{5}$

6) $\dfrac{2(3x-5)}{2} = \dfrac{-4(x-2)}{7}$

8) $\tfrac{1}{2}(5x+7) = \tfrac{3}{4}(3x-1)$

9) $\dfrac{5}{3x+1} = 12$

10) $\dfrac{x+2}{x+3} = 4$

11) $\dfrac{2x-9}{3x-2} = -3$

12) $\dfrac{2}{3x+10} = \dfrac{1}{x-1}$

13) $\dfrac{2}{7x+3} = \dfrac{9}{2x-5}$

Subject- Science

1. Select the correct word from the following list and fill in the blanks.
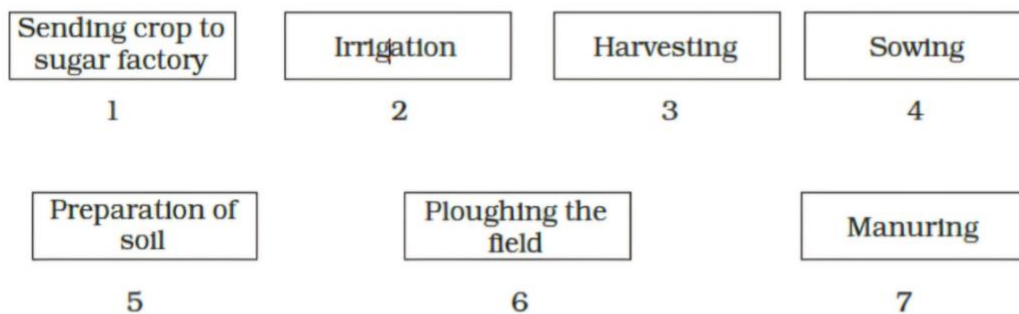
float, water, crop, nutrients, preparation

(a) The same kind of plants grown and cultivated on a large scale at a place is called _____.

(b) The first step before growing crops is _____ of the soil.

(c) Damaged seeds would _____ on top of water.

(d) For growing a crop, sufficient sunlight and _____ and _____ from the soil are essential

2. Match items in column A with those in column B.

A   B

(i) Kharif crops   (a) Food for cattle

(ii) Rabi crops.   (b) Urea and superphosphate

(iii) Chemical fertilisers   (c) Animal excreta, cow dung urine and plant wastes

(iv) Organic manure   (d) Wheat, gram, pea

                                         (e) Paddy and maize

3. Arrange the following boxes in proper order to make a flow chart of sugarcane crop production.

Sending crop to sugar factory	Irrigation	Harvesting	Sowing
1	2	3	4

Preparation of soil	Ploughing the field	Manuring
5	6	7

4. Complete the following word puzzle with the help of the clues given below.
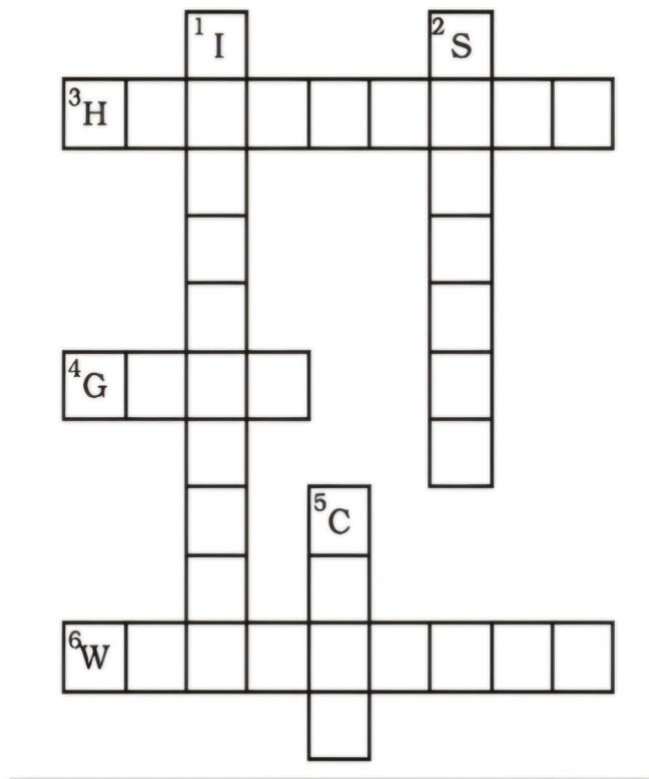
Down

1. Providing water to the crops.

2. Keeping crop grains for a long time under proper conditions.

5. Certain plants of the same kind are grown on a large scale.

Across

3. A machine used for cutting the matured crop.

4. A rabi crop, which is also one of the pulses.

6. A process of separating the grain from the chaff.

5. Multiple Choice Questions (MCQs) Tick (✓) the correct options:
1. The crops that are sown in the rainy season are called
(a) Kharif crops (b) rabi crops (c) cash crops (d) none of these
2. Which of the following is not a rabi crop?
(a) wheat (b) potato (c) rice (d) mustard
3. The process of loosening and turning of the soil is called
(a) ploughing (b) levelling (c) manuring (d) none of these
4. Which one is used to level the ploughed land?
(a) leveller (b) hoe (c) plough (d) cultivator
5. Which among these is a plantation crop?
(a) tea (b) coffee (c) rubber (d) all of these
6. Leguminous plants in the replenishment of the soil with
(a) oxygen (b) nitrogen (c) hydrogen (d) carbon dioxide
7. Before sowing, seeds should be treated with_____.
(a) insecticides (b) pesticides (c) fungicides (d) fertilisers
8. Which of the following is not a traditional method of irrigation?
(a) moat (b) drip (c) dhekli (d) rahat
9. The soil which needs least frequent irrigation is
(a) sandy (b) clayey (c) rocky (d) loamy

10. Which of the following crops requires standing water?
(a) wheat (b) rice (c) cotton (d) maize

6. Fill in the blanks.

(a) Microorganisms can be seen with the help of a _____.

(b) Blue-green algae fix _____ directly from the air and enhance the fertility of the soil.

(c) Alcohol is produced with the help of _____.

(d) Cholera is caused by _____.

7. Tick the correct answer.

(a) Yeast is used in the production of

(i) sugar (ii) alcohol (iii) hydrochloric acid (iv) oxygen

(b) The following is an antibiotic

(i) Sodium bicarbonate (ii) Streptomycin (iii) Alcohol (iv) Yeast

(c) Carrier of malaria-causing protozoan is

(i) female Anopheles mosquito (ii) cockroach (iii) housefly (iv) butterfly

(d) The most common carrier of communicable diseases is

(i) ant (ii) housefly (iii) dragonfly (iv) spider

(e) The bread or idli dough rises because of

(i) heat (ii) grinding (iii) growth of yeast cells (iv) kneading

(f) The process of conversion of sugar into alcohol is called

(i) nitrogen fixation (ii) moulding (iii) fermentation (iv) infection

8. Match the organisms in Column A with their action in Column B.

A	B
(i) Bacteria	(a) Fixing nitrogen
(ii) Rhizobium	(b) Setting of curd
(iii) Lactobacillus	(c) Baking of bread
(iv) Yeast	(d) Causing malaria
(v) A protozoan	(e) Causing cholera
(vi) A virus	(f) Causing AIDS
	(g) Producing antibodies

9. What are the major groups of microorganisms?

10. Dear students, please make models on the following topics:

(a) Heart.   Roll no. 1-5

(b) Digestive System.   Roll no. 6-10

(c) Life cycle of Plant/ butterfly   Roll no 11-15

(d) Solar System/ Model of Chandrayan   Roll no. 16-20

(e) Water Cycle.   Roll no. 21-25

(f) Natural disasters 3D   Roll no. 26-30

Art integrated project: Depict the importance of water management in Telangana and haryana agriculture through a painting or drawing. Consider using water-related imagery like canals, wells, or traditional irrigation methods. Use A4 sheets.

Learn Syllabus which is done in class.

Social-Science

- Subject Enrichment Activity Roll no : 1 to 15
- Collect pictures of resources you use daily.
- Web chart on renewable & non-renewable resources.
  Roll no : 15 to 34
  Paste the pictures of religious symbols.
  * Draw a picture showing secularism.
  * Paste any newspaper cutting related to secularism.

- Art Integrated Project
- A project comparing rice production in Telangana and Haryana using statistical concepts.

- Learning Task
Revise the following chapters :
        History: chapter -2 (Establishment of the British power in India)
        Geography chapter 2 (Land, soil ,water, Natural vegetation and wildlife resources)
        Civics chapter -2 (Secularism)

Note: Submit your holiday's home work in a handmade file cover.
        Use A4 ruled sheets and do extensive art and craft .

Art and craft

- Do Page No. 9,6,17,19,20,22,23,26,40,46

Punjabi

- Revise all done work book and notebook.

Information Technology

- Do revision of Chapter 1 & 2.
- Project Work: Make a chart and write-up on all categories of Google apps.