

MDS PUBLIC SCHOOL, MADINA (ROHTAK)

SUMMER HOLIDAYS HOMEWORK

SESSION – (2025-26)

CLASS - 8TH



“SOME OF YOUR BEST IDEAS COME WHEN YOU'RE ON VACATION.”

Out of difficulties grow miracles. Tough time don't last.

Dear Students,

The beginning of new session might not have been with pomp and show, but the spirit of teaching learning continues in the school. The summer vacations this time would not be ice creams, candies and cool pool, but time can be utilized in honing skills.

Some points to be remember

- Drink plenty of juice and water to avoid dehydration.
- Make hand washing and hygiene a part of your routine.
- Holiday Homework is a part of subject enrichment and will be assessed on the basis of creativity and efforts of the students.
- It's the perfect time to enhance your speaking skills and vocabulary by conversing in English with your family and siblings.
- Reading is essential for those who seek to rise above the ordinary. Spend your quality time reading purposeful books.
- A beautiful handwriting makes a good impression. Practice one page of English and Hindi handwriting daily.
- Holiday homework should be your authentic creative work.
- Holiday Homework is given according to roll numbers.
- Holiday Homework will be submitted in paper bag as per the given schedule.

Here are the ways by which you can make your holidays fun and learning at the same time:-

- **Go for walk,talk about things you see around.**
- **Speak in English as much as possible.**
- **Help your parents in small household chores like dusting, cleaning and watering the plants.**

NOTE:-Do all the assignments in neat and legible handwriting in separate notebook.

Parents are requested to just guide the children to complete the task on their own.

SUBJECT – S.SC

1. Plan a visit with your parent to a historical monument and collect information on the following:
 - (i) When was it built?
 - (ii) To which period in history does it belong?
 - (iii) What is its historical significance?**Chart Making:-**Make a chart to show the steps taken by the government to conserve the wildlife in India.
2. Write a paragraph on the Pahalgam terrorist attack with the relative pictures. Analysis it also.
3. How do wind turbines generate energy?
4. Collect different types of things available at your home and in nearby areas. Classify them into different categories of resources as per what you have studied in the chapter.
5. Make a list of 'Overuse of Resources and Sustainable Development' by forming groups Under the names of different countries.
6. Collage pictures from various sources that promote religious harmony among Indians and make a collage of it.

SUBJECT-AI

- Q1. Make a chart on topic. (Possibilities).
- Q2. Make a chart on topic. (AI Ethics).
- Q3. Make a video on topic Possibilities. (any 10 slides).
- Q4. AI and Robotics. (Model or Drawing):
 - Objective: Create a simple drawing or model of a robot or an AI system, and explain how it works.
 - Tools to Use: Drawing software (like Sketchpad or Paint), or craft supplies (clay, cardboard) for a physical model.
 - Things to Explain:
 - The purpose of the robot or AI.
 - How it interacts with the environment.
 - Benefits and drawbacks.

SUBJECT-ENGLISH

1. Write 5 English news daily.
2. Do 10 pages of beautiful handwriting.
3. Do Worksheet no.-1,2,3,4,7,25 from your assignment book.
4. Write your views about Pahalgam Attack and what will you do if such type of attack happens at your place (150-180 words).
5. Write your experience about COVID19 and how doctors and police personnel helps us in such a difficult time (120-150 words).
6. Creative Writing-My Dream Day

Write a short story (150-200 words) titled "A Day in my Dream World"

Include imaginary places, magical things and what you would do if you could do anything for a day.

Decorate the page with drawings or magazine cuttings.

7. Book Review Corner

-Read any one storybook. (English fiction or biography)

-Write a short review including:

-Title and Author

-Main characters

-Summary (in your own words)

-What you liked/disliked

-Moral or message

8. Revise all the syllabus done in the class.

विषय - हिन्दी

1. प्रतिवर्ष 14 सितंबर को राजभाषा हिंदी दिवस मनाया जाता है हिंदी दिवस के लिए आकर्षक पोस्टर बनाइए |
2. 1 से 12 अनुक्रमांक वर्ण तथा उसके भेद पर चार्ट बनाइए तथा उसे सजाइए |
3. 13 से 23 अनुक्रमांक संधि तथा उसके भेद पर चार्ट बनाकर चार्ट को सजाइए |
4. कक्षा में किए गए कार्य को दोहराए |
5. साक्षरता अभियान के अंतर्गत अपने घर या पड़ोस में काम करने वाले हमारे सहायक (हेल्पर्स) का साक्षात्कार ले |

इस में निबंध बिंदुओं के आधार पर उससे साक्षात्कार करें -

- जब आप किसी समारोह या अन्य किसी जगह जाते हैं वहां शिक्षित लोग भी हो तो आप उन लोगों व स्वयं में क्या अंतर पाते हो ?
- ऐसी परिस्थिति में आपके मन में क्या विचार आते हैं?
- आपके कितने बच्चे हैं? उनके लिए आप कैसा भविष्य चाहते हैं?
- अगर आप अपने बच्चों का भविष्य उज्ज्वल बनाना चाहते हैं तो उसमें शिक्षा का क्या योगदान है?
- कहाँ करें - A4 रंगीन सीट में
 - ° कैसे करें - साक्षात्कार (प्रश्न उत्तर के रूप में) साथ में फोटो भी लगाए |
 - ° मूल्यांकन बिंदु - बिंदुवत वर्णन भाषा प्रयोग उदाहरण व प्रस्तुति |
- 6. आप अपने रिश्तेदारों के यहां जाते हैं शहर में और आपको पता लगता है कि आपकी और उनकी दिनचर्या में बहुत अंतर है | इस पर विचार- विमर्श करते हुए वाक्य लिखिए |

SUBJECT-MATHS

Revise examples of ch- 1, 2 and 3

Solve the given Math worksheet in holiday's homework

Activity 1 (For even roll numbers)

- Prepare a working model on rational number.
- Prepare a working model 2d shapes.

Activity 2 (for odd roll numbers)

- Prepare a working model on laws of exponent.
- Prepare a working model on 3- D shapes.

(Compulsory for all)

Revise examples of ch- 1, 2

Solve the given Math worksheet in holiday's homework

WORKSHEET - 1

1. What should be added to $-5/4$ to get -1 ?
(I) $-1/4$ (II) $1/4$ (III) 1 (IV) $-3/4$
2. What should be subtracted from $-5/4$ to get -1 ?
(I) $-1/4$ (II) $1/4$ (III) 1 (IV) $-3/4$
3. Which of the following is the identity element?
(I) 1 (II) -1 (III) 0 (IV) None of these
4. Which of the following is the Multiplicative identity for rational numbers?
(I) 1 (II) -1 (III) 0 (IV) None of these
5. Which of the following is neither appositive nor a negative rational number?
(I) 1 (II) 0
(III) Such a rational number does not exist (IV) None of these
6. Which of the following lies between 0 and -1 ?
(I) 0 (II) -3 (III) $-2/3$ (IV) $4/3$
7. Which of the following is the reciprocal of a ?
(I) $-a$ (II) a (III) $1/a$ (IV) $-1/a$
8. Which of the following is the product of $7/8$ and $-4/21$?
(I) $-1/6$ (II) $1/12$ (III) $-16/63$ (IV) $-147/16$
9. Which of the following is the product of $(-7/8)$ and $4/21$?
(I) $-1/6$ (II) 12 (III) $-63/16$ (IV) $-16/147$
10. Which of the following is the reciprocal of the reciprocal of a rational number?
(I) -1 (II) 1 (III) 0 (IV) The number itself

WORKSHEET-II

1. Associative property is not followed by which type of numbers?
2. ____ is the identity for the addition of rational numbers.
(a) 1 (b) 0 (c) 1 (d) 1
3. What is the multiplicative identity for rational numbers?
4. What is the additive inverse of $3/5$?
5. How many reciprocals does zero have?
6. Write.
(i) The rational number that does not have any reciprocal at all.
(ii) The rational numbers those are equal to their reciprocals.
(iii) The rational number that is equal to its negative.
7. Give a rational number which when added to it gives the same number.
8. By what rational number should $22/7$ be divided, to get the number $-11/24$?
9. Represent the following rational numbers on the number line.
(i) $3/10$ (ii) $8/7$ (iii) 1.345 (iv) $21/7$
10. If you subtract $1/8$ from a number and multiply the result by $1/4$, you get $1/16$. What is the number?
11. Which of the following can be expressed as terminating or non - terminating?
(a) $1/3$ (b) $-14/15$ (c) $-38/81$
12. Find two rational numbers between (i) -3 and 3 . (ii) 0 and 1 .
13. Insert six rational numbers between:
(i) $-1/4$ and $-2/5$ (ii) $21/12$ and $12/21$.
14. Find two rational and two irrational numbers between $1/8$ and $2/9$.

WORKSHEET-III

1. Write three rational numbers occurring between $\frac{1}{3}$ and $\frac{4}{5}$.
2. Multiply the negative of $\frac{2}{3}$ by the inverse of $\frac{9}{7}$.
3. What should be added to $-\frac{16}{3}$ to make it $\frac{1}{9}$?
4. What should be subtracted from $\frac{5}{8}$ to make it -1 ?
5. Write different properties of a rational number.
6. Represent $\frac{3}{4}$ and $\frac{8}{9}$ on a number line.
7. Find the greater of the two $-\frac{12}{5}$ and $\frac{4}{9}$.
8. Multiply the negative of $\frac{29}{2}$ by its inverse.
9. Write a rational number equivalent to $\frac{9}{10}$ having 90 as numerator.
10. Write a rational number equivalent to $\frac{18}{29}$ having 87 as denominator.
11. Write $\frac{2}{3}$, $-\frac{4}{9}$, $-\frac{8}{11}$ in ascending order.
12. Write $\frac{2}{3}$, $-\frac{4}{9}$, $-\frac{8}{11}$ in descending order.
13. Fill in the blanks:
 - (i) The product of a number and its product is _____.
 - (ii) The rational number _____ has no reciprocal.
 - (iii) The reciprocal of the reciprocal of a number is _____.
 - (iv) The rational number _____ is neither positive nor negative.
 - (v) _____ is the only rational number which is equals its additive inverse.
14. Write:
 - (i) A rational number which has no reciprocal.
 - (ii) A rational number whose product with a given rational number is equal to the given rational number.
 - (iii) A rational number which is equal to its reciprocal.
15. Find three rational number between $\frac{3}{7}$ and $\frac{2}{3}$.
16. The product of two rational numbers is $-\frac{28}{81}$. If one of them is $-\frac{2}{3}$ then find the other.
17. Find $\frac{3}{7} + (-\frac{6}{11}) + (-\frac{8}{21}) + (\frac{5}{22})$.
18. Write additive inverse of the following:
 - (a) $-\frac{7}{19}$
 - (b) $\frac{21}{112}$
19. Verify that $-(-x) = x$ for
 - (a) $x = \frac{11}{15}$
 - (b) $x = -\frac{13}{17}$
20. Represent $-\frac{2}{11}$, $-\frac{5}{11}$, $-\frac{9}{11}$ on the number line.
21. Write five rational numbers which are smaller than to 2.
22. Write all properties of rational numbers.
23. Write definition of rational numbers. Give three examples.
24. What is the additive identity of rational numbers?
25. What is the multiplicative identity of rational numbers?

CHAPTER-2 EXPONENTS AND POWER

1. Simplify $(1 / 32)^3$.
2. Evaluate: $(5-1 \times 82) / (2-3 \times 10-1)$.
3. Find the value of 'm' for which $6m / 6 - 3 = 65$?
4. Evaluate $[(\frac{1}{2})^{-1} - (\frac{1}{3})^{-1}]^{-1}$.
5. Simplify: $(-3)^5 \times (\frac{5}{3})^5$.
6. Compare 7×10^{-6} and 129×10^{-7} .
7. The size of a plant cell is 0.00001275 m express it in standard form.
8. If the thickness of a paper sheet is 0.0016 cm, find the thickness of 100 sheets. Express the answer in standard form.
9. Find the value of $5^{-3} \times \frac{1}{53}$.

10. Simplify $25 / 2^{-6}$.
11. Express 4^{-3} as a power with base 2.
12. Simplify and write the answer in exponential form: $(25 / 28)^5 \times 2^{-5}$.
13. Find the value of $(2/3)^{-2}$.
14. Simplify: $(5/8)^{-7} \times (8/5)^{-5}$.
15. Simplify $(-4)^{-10} \times (-4)^5$
16. What is the reciprocal of 0.1?
17. What is the value of x in $5x \div 5 - 3 = 55$?
18. Evaluate $2^{-2} (-2)^{-2} (3/2)^{-5}$
19. Simplify and express the result in power notation with positive exponent.
 - i. $(-2)^5 \div (-2)^4$
 - ii. $(1/2)^2 \times (2/5)^2$
 - iii. $(-5)^2 \times (3/5)$
20. Find the value of.
 - (i) $(40 + 4^{-1}) \times 22$
 - (ii) $(3^{-1} \times 9^{-1}) \div 3^{-2}$
 - (iii) $(11^{-1} + 12^{-1} + 13^{-1})^0$
21. Find the value of m for which $2m \div 2^{-4} = 45$
22. Express the following numbers in standard form.

0.0000000015

0.00000001425

10200000000000000
23. Express the following numbers in usual form.

34.02×10^{-5}

9.5×10^5

9×10^{-4}

2.0001×10^8

SUBJECT-SCIENCE

Answer in one word or short phrases in your notebook.

1.
 - a) Name a Kharif crop.
 - b) Tool used for ploughing.
 - c) Explain Modern irrigation method.
 - d) Manure or fertilizer: Which is natural?
 - e) What protects crops from pests?
2. Name the instruments given below:



TASK-1

Fill in the blanks with suitable words.

1. Plants of one kind grown at a one place on a large scale is called _____.
2. _____ is a simple tool used for removing weeds and for loosening the soil.
3. Propagation of ginger is usually done using _____.
4. _____ improves the texture of the soil.
5. Condition necessary to grow maize is _____.
6. A common weed that grow among the crops is _____.
7. _____ is the process of cutting and gathering the ripened crop.
8. _____ crops are sown in winter season.
9. Kharif crops are sown in _____ season.
10. Products obtained from the crops are called _____.
11. 'The process of removing weeds is called _____.
12. _____ is the practice of growing two or more dissimilar crops in the same piece of land.
13. Separation of grain from chaff with the aid of wind is called _____
14. Leguminous plants fix _____ in the soil.
15. Cod liver oil is rich in _____.

TASK-2

Fill in the blanks with suitable words.

1. Bacteria, fungi, protozoa and _____ are the major four groups in which microorganisms are classified.
2. Two microorganisms which live in symbiotic association in lichens are _____ and _____.
3. We use a _____ to see the microorganisms.
4. _____ are considered different from other microorganisms because they can multiply only by entering the host organisms.
5. The gas released during the preparation of bread is _____.
6. The disease caused by a protozoan and spread by an insect is _____.
7. _____ are curved-shaped bacteria.
8. Saprophytes and _____ are the two main categories of fungi.
9. _____ are the threads of the multicellular fungi.
10. Yeast is a _____ fungus.
11. Protozoa are _____ in nature.
12. Flu, cough and cold are caused by _____.
13. The first antibiotic discovered was _____.
14. _____ are the microorganisms that help in the process of decomposition.
15. The process of formation of curd from milk is known as the _____ of milk.

VALUE BASED QUESTIONS

Question 1.

Rajan felt worried about the condition of water scarcity in his village during the cropping season. He went to Ministry of Agriculture and Farmers Welfare of his area to get the solution of this problem. There he came to know about effective method of irrigation and drought resistant varieties of crop. He requested the head of department of the ministry to arrange some workshop on this topic to educate the farmers in these methods.

- a) Name modern methods of irrigation that help us to use water economically.
- b) What is drought resistant varieties of crop?
- c) Can you name some crops that require less amount of water?
- d) What value of Raj an is shown here?

Question 2.

Krishi Vigyan Kendra (KVK), a constituent extension centre of Tamil Nadu Veterinary and Animal Sciences University, organised a farmer's workshop on organic farming in vegetable cultivation at Kalayarkoil to commemorate the World Soil Day.

- (a) What is organic farming?
- (b) What is the advantage of organic farming?
- (c) What are the health benefits of organic farming?
- (d) What values of KVK are shown here?

Question 3

Seema got cough and cold badly. Her teacher asked her to take rest at home and use handkerchief while sneezing and coughing. She obeyed her teacher.

- (a) Why should we keep a handkerchief on nose and mouth while sneezing or coughing?
- (b) What are the modes of transfer of diseases from infected to healthy person?
- (c) Do you think Seema's teacher decision was right? Why?
- (d) What value of Seema is shown here?

Question 4

On Rahul's birthday, his mother prepared many dishes for him. After having their meal, they found that many food items were left over. Rahul's mother kept these leftovers in a air-tight container and refrigerate them.

- (a) What is food preservation?
- (b) What will happen to the food if it is not refrigerated?
- (c) What is the role of refrigeration in food preservation method?
- (d) What value of Rahul's mother is shown here?

Activities and Projects based questions

(Use A4 size colourful double fold sheet using decoration material)

Question 1. (Roll No. 1 to 4)

Pull out a gram or bean plant from the field. Observe its roots. You will find round structures called root nodules on the roots. Draw a diagram of the root and show the root nodules.

Question 2. (Roll No. 5 to 8)

Collect the different types of Kharif and Rabi crops .and label it .Put them in small bag. Attach these bags on sheet.

Question 3. (Roll No. 9 to 12)

Visit a doctor. Find out why antibiotics should not be overused. Prepare a short report.

Question 4. (Roll No. 13 to 16)

Sow some seeds in the soil and use drip irrigation method. Observe daily.

- Do you think it can save water?
- Note the changes in the seed.

Question 5. (Roll No. 17 to 20)

Collect different types of seeds and put them in small bags. Attach these bags On sheet and label them.

Question 6. (Roll No. 21 to 24)

Collect new agricultural machine pictures and paste them on sheet with their names and uses..

Question 7. (Roll No. 25 to 26)

Visit a farm, nursery or a garden nearby. Gather information about

- (i) Importance of seed selection.

- (ii) Method of irrigation.
- (iii) Effect of extreme cold and extreme hot weather on the plants.
- (iv) Fertilizers /manure used.

SUBJECT-IT

1. Make an Interactive Poster on Cyber Safety.
2. Create a Flowchart of Your Daily Routine.
3. Design a Digital Poster on a Favorite Topic Using PowerPoint.
4. Make a chart on types of Networks or DBMS .
5. Write any 20 shortcut keys of each MSWord , MS Powerpoint and MS Excel.
6. Create a Simple Website using HTML.
7. Create an infographic that outlines key tips for staying safe online (e.g., using strong passwords, not sharing personal info, and recognizing phishing scams).

SUBJECT- G.K

1. Know the World – Country Report

Choose any 3 countries and make a short report for each including:

- Flag (draw or paste)
- Capital and currency
- Prime Minister/President
- National language
- One interesting fact

Present it as a mini booklet or chart.

2. Weekly News Journal (4 Entries)

Each week, choose one major current event and write:

- Headline
- Date
- 5W1H: What, When, Where, Who, Why, and How

Can include sports, science, politics, or environment news.

3. India's Pride – Poster Making

Create a poster on "Famous Indian Achievers" (choose any one category):

- Scientists (e.g. C.V. Raman, Dr. A.P.J. Abdul Kalam)
- Sportspeople (e.g. Neeraj Chopra, P.V. Sindhu)
- Freedom fighters
- Young achievers

Include photos/drawings and 1–2 lines for each person.

4. World Records Fun Book

Make a mini booklet on any 5 world records:

- Include what the record is, who holds it, and when it was achieved.
- You can include sports records, Guinness World Records, science achievements, etc.

5. Map Work – Know Your Continents

On a printed world map:

- Label all 7 continents and 5 oceans
- Mark any 10 important countries (with their capitals)
- Color code the continents

6. Create a GK Quiz!

- Prepare a 20-question quiz on the following:
- Science facts
- History of India
- Sports
- World geography
- Famous personalities

Add answers on a separate page. Bonus: Try it out on family or friends!

SUBJECT- SANSKRIT

1. 51 से 100 तक गिनती लिखें एवम् याद करें |
2. प्रथम पाठ के सभी श्लोक (व्याख्या सहित) लिखें एवम् याद करें |
3. निम्नलिखित शब्द रूपों एवम् धातुओं को लिखें एवम् याद करें |
 - शब्द रूप- अस्मद्, युष्मद्, मातृ, राजन् |
 - धातु रूप- खाद्, इष्, पठ्, रक्ष् |
4. तृतीय पाठ के आधार पर एक चार्ट का निर्माण करें |



Dr. A.P.J Abdul Kalam – The Missile Man of India

Our mission is water

My mother called me Blue Nile

I am also named by mother White Nile

When we grew and grew we asked

Oh mother, Oh mother

Tell us, why did you name us Nile

Our mothers said lovingly

Oh our children

You travel and travel

Cross mountains, forests and valleys

Thousands of miles, enriching nine countries

you reach Khartoum

you Blue and White Niles confluence with a mission

God has commanded you to give a message

you give a beautiful message

When we rivers confluence

Oh humanity why not your hearts confluence

And you blossom with happiness.

By :- Dr. A.P.J Abdul Kalam