



SUMMER HOLIDAYS

HOMework

— Fun • Learn • Explore —

Lord Jesus Public School

Vijay Park Gurugram - 122001

Phone No. 01242307725, 4077462,63

Class - 8th

Relax
Refresh
Recharge

Enjoy
Every Moment
• Make •
Beautiful
Memories



CLASS - VIII
HOLIDAY HOMEWORK
Mathematics Assignment-1

Section A – Squares and Square Roots

1. Find the square of the following numbers: a) 24 b) 35
2. Write the square roots of: a) 144 b) 625
3. State whether the following numbers are perfect squares or not:
a) 225 b) 500
4. Find the smallest number that must be multiplied by 98 to make it a perfect square.
5. Find the smallest number by which 432 must be divided to make it a perfect square.
6. Find the square root of 2025 by prime factorisation method.
7. Find the square root of 1296.
8. The area of a square park is 2304 m². Find the length of one side.
9. A student arranged 1600 books equally in rows and columns to form a square. How many books are there in each row?
10. Find the least square number exactly divisible by 6, 8 and 12.

Section B – Cubes and Cube Roots

1. Find the cubes of the following numbers: a) 12 b) 15
2. Find the cube roots of: a) 216 b) 729
3. State whether the following numbers are perfect cubes or not:

a) 512 b) 750

4. Find the smallest number that must be multiplied by 250 to make it a perfect cube.
5. Find the smallest number by which 864 must be divided to make it a perfect cube.
6. Find the cube root of 2744 by prime factorisation method.
7. Without actual multiplication, find the value: a) $(20)^3$ b) $(5)^3$
8. A cube-shaped box has volume 4913 cm^3 . Find the length of one side.
9. Find the least perfect cube which is divisible by 12 and 18.

Assertion–Reason Questions:

- i) Assertion (A): 1000 is a perfect cube.
Reason (R): $10 \times 10 \times 10 = 1000$.
- ii) Assertion (A): Every perfect square ends with 2.
Reason (R): Perfect squares can end with 0, 1, 4, 5, 6 or 9.
- iii) Assertion (A): 729 is a perfect cube.
Reason (R): Cube root of 729 is 9.
- iv) Assertion (A): Square root of 1600 is 40.
Reason (R): $40 \times 40 = 1600$.
- v) Assertion (A): 500 is a perfect square.
Reason (R): Perfect squares have pairs of prime factors.

Choose the correct option:

- a) Both A and R are true, and R is the correct explanation of A.

- b) Both A and R are true, but R is not the correct explanation of A.
- c) A is true but R is false.
- d) A is false but R is true.

Section C – Case Study Based Questions

1. A school wants to make a square garden in the playground. The area of the garden is 2025 m^2 .

- a) Find the length of one side of the garden.
- b) Find the perimeter of the garden.
- c) Is 2025 a perfect square? Give reason.

2. Riya collected 1728 small cubes to make a large cube-shaped model.

- a) Find the cube root of 1728.
- b) How many small cubes are there along one edge of the model?
- c) Is 1728 a perfect cube? Explain.

3. A company packed 4096 chocolates equally in rows and columns to make a square arrangement.

- a) Find the number of chocolates in one row.
- b) Find the square root of 4096.
- c) Write whether 4096 is a perfect square or not.

Mathematics Assignment-2

Q1. Express each of the following in exponential form:

- a) $5 \times 5 \times 5 \times 5$
- b) $x \times x \times x \times x \times x$

c) $a \times a \times b \times b \times b$

Q2. Write the following in expanded form:

a) 2^5
b) 7^3
c) m^4

Q3. Simplify: a) $2^3 \times 2^4$ b) $5^6 \div 5^2$ c) $x^5 \times x^2$

Q4. Find the value of: a) 10^2 b) 3^4 c) $2^5 + 5^2$

Q5. Simplify using laws of exponents:

(a) $(2^3)^2$ b) $(5^2)^3$ c) (a^2)

Q6. Solve:

(a) $4^3 \div 4^2$
(b) $6^2 \times 6^3$
(c) $(2^2 \times 2^3) \div 2^2$

Q7. Write the following numbers in standard form:

(a) 3000000 b) 0.00045 c) 78000

Q8. Convert the following from standard form to ordinary form:

(b) 4.5×10^3 (b) 7.2×10^5 (c) 9.1×10

Q9. True or False:

a) $2^3 + 2^3 = 2^6$ b) $a^4 \div a^2 = a^2$ c) $10^0 = 1$

Q10. Assertion – Reasoning:

Assertion (A): When powers with the same base are multiplied, the exponents are added

Reason (R): $a^m \times a^n = a^{m+n}$

Choose the correct option:

- 1.) Both A and R are true and R is the correct explanation of A.
- 2.) Both A and R are true but R is not the correct explanation of A.
- 3.) A is true but R is false.
- 4.) A is false but R is true.

Q11. Case Study:

Riya reads that the distance between two planets is written as 6.4×10^8 km.

Answer the following:

- (a) What is the ordinary form of the number?
- (b) Which power of 10 is used here?
- (c) Why is standard form useful for large numbers?

Q12. Simplify:

a) $(3^2 \times 3^3) \div 3^2$ b) $(5^3 \div 5^2) \times 5$ c) $(2^4)^2 \div 2^3$

Q13. HOTS Question:

A number is multiplied by itself 6 times.

- (a) How can you write it in exponential form?
- (b) If the number is 3, find its value.
- (c) Write one real-life situation where exponents are used.

Q14. Simplify:

a) $a^3 \times a^4 \div a^2$ b) $(m^2)^3$ c) $b^7 \div b^3$

Q15. Multiple Choice Questions:

- a) The value of 4^2 is:
 1. 8
 2. 16
 3. 12
 4. 20

b) 10^{-1} means:

1. 10
2. 1/10
3. 100
4. 0

Q16. Word Problem:

A computer stores 2^6 files in one folder.

- (a) How many files are stored?
- (b) If the number of files doubles, how many files will there be?

Q17. Challenge Question:

Using the laws of exponents, simplify:

- (a) $(2^3 \times 2^2) \div 2^4$
- (b) $(5^2 \times 5^3) \div 5$
- (c) $(x^4 \div x^2) \times x^3$

Activity Corner

Paper Folding Activity

Materials Needed: One colored sheet of paper.

Instructions:

1. Take a sheet of paper and fold it into half.
2. Count the number of parts formed after each fold.
3. Complete the table:

Number of Folds	Number of Parts	Exponential Form
1	2	2^1
2	4	2^2
3	8	2^3
4	—	—

3. Observe the pattern and write what happens to the number of parts after every fold.

- **Do both assignments in a separate notebook**
- **Do Test paper-1 (page no-13), Test paper-2 (page no-24), Test paper- 3 (page no-49), Test paper-6 (page no-132) in notebook.**
- **Revise Chapter-1,2,3,6 for CT-1.**

Science

Biology.

Based on chapter 6- Health and Hygiene Good health begins with good habits.

Activity 1 (Slogan writing)

Write any 10 “Catchy Slogans” on Health and Hygiene. (on A3 size sheet)

For eg: “Clean Hands Save Life” “Healthy Habits, Happy Future”

Students can decorate each slogan differently.

Activity 2 * (Interview your grand parents) Ask “How did people maintain cleanliness and health during olden days”

Write details in your notebook

5 Questions - Their answers One lesson learned (from them)

Activity 3. (My Daily food Record) note down your one Weeks food record.

Write about the food items you eat on regular basis

Like -

Breakfast
Lunch
Snacks time
Dinner etc

Then answer the following Questions.

- What is balanced diet - define.
- What should be in your diet as you are in eighth Class - (13-14 years)
- Is your diet balanced? Why or why not?
- How can it be modified? Suggest some methods and food items to be added and avoided.

Activity 4. Create your personal Immunity vaccination Card..

Design a decorative immunity vaccination Card (just like your original Immunisation Card)

- By tracking Vaccines from birth to now.
- Identify if any vaccination is missing.
- Also write why is it important to get the vaccines on time.

For making

- Use A3 sized chart sheet or a thick card.
- Paste your own photograph at the top.
- Record your height and weight
- Use bold headings, borders
- Present in neat Handwriting
- Bring your decorated immunity card to class after vacation.

Science Assignment

1. A solid iron needle sinks in water, but a large ship made of iron floats. Briefly explain the principle behind this.
2. Mention the three main postulates regarding the motion and arrangement of molecules.
3. Explain the kind of changes in wax (i) when it is heated to make candles and (ii) when wax is burnt in a candle to get light. Explain which one is a physical change or a chemical change and why?
4. State two main differences between density and relative density.
5. Explain why boiling of egg is considered as a chemical change why boiling of water is a physical change?
6. The density of copper is 8.9 g/cm^3 . Calculate the volume of a copper statue that has a mass of 1.78 kg.
7. When common salt is dissolved in water, it disappears. Is this a chemical change because new liquid is formed? Justify your answer.

8. The density of aluminium is 2700 kg/m^3 . Express this value in g/cm^3 .
9. Why is it easier to compress a gas than a solid?
10. Difference between the following:
 - a) Periodic and non-periodic changes
 - b) Physical and chemical changes
11. The dimensions of a classroom are $10 \text{ m} \times 8 \text{ m} \times 4 \text{ m}$. If the density of air is 1.3 kg/m^3 , find the mass of the air contained in the room.
12. Draw a labelled diagram of a Eureka Can (over-flow can) being used to find the volume of an irregular solid

NOTE: Revise syllabus of Unit Test1 thoroughly from book and register.

English

1. On A4 size sheet draw, write and colour any one of the following according to your Roll no.

Roll no.	Topic
1-10	Poetry on Nature
11 -20	Poetry on Importance of Books
21 – 30	Poetry on Childhood Memories
31 onwards	Poetry on Father's Day

2. Jot down 20 long words with their meanings in English language copy.
3. Prepare a speech on any one according to your Roll no. to be taken as an English linguistic Activity post vacation.

Roll no.	Topic
1 - 10	Cyber Crime
11 – 20	Women Empowerment
21 - 30	Artificial Intelligence (AI)
31 onwards	Save Energy

Social Studies

Creative SST Holiday Homework Ideas for Class 8

1. "Travel Through Time" Diary

Topic: History

Write a 7-day diary as if you were living in any historical period:

Mughal Era

Harappan Civilization

French Revolution

Freedom Struggle

Include:

What you wore

Food you ate

Problems faced

Important events around you

Make it colorful with borders, tiny sketches, tea-stained pages, etc.

2. Design Your Own Country

Topic: Civics + Geography

Create your own imaginary country and write:

Name of country

Flag meaning

Capital city

Currency

Famous food

Climate

Government type

Fundamental rights for citizens

Add passport design and currency notes on paper.

3. "News Reporter" Project

Topic: Current Affairs + Civics

Become a news reporter and prepare:

5 important national news reports

3 international news reports

2 environmental issues

Write them like TV news scripts.

Bonus:

Add headlines

Draw microphone logo

Include "Breaking News" sections

4. Heritage Hunt

Topic: Indian Heritage

Visit or research 5 heritage places of India and create mini fact files:

Location

Historical importance

Interesting facts

Architecture style

Why it should be preserved

Present it like an Instagram travel page.

Possible places:

Taj Mahal

Hawa Mahal

Qutub Minar

5. Climate Change Detective File

Topic: Geography

Make a detective-style report on:

Global warming

Deforestation

Water scarcity

Pollution

Include:

Causes

Effects

Real examples

Solutions YOU can follow at home

Add newspaper cuttings or printed pictures.

6. Constitution Comic Strip

Topic: Civics

Create a short comic showing:

Fundamental Rights

Equality

Child Rights

Democracy

Example: A child being denied education → Constitution helping them.

Use speech bubbles and cartoon characters.

7. "A Day Without..." Challenge

Topic: Resources

Spend one day without:

Electricity

Plastic

Mobile phone

Water wastage

Then write:

Difficulties faced

What you learned

How resources are important

Present it like a personal reflection journal.

8. Food Around India Scrapbook

Topic: Culture + Geography

Collect information about foods from different states:

Punjab

Gujarat

Kerala

West Bengal

Tamil Nadu

Write:

Famous dishes

Ingredients

Climate influence on food

Festivals connected with food

Add hand-drawn food doodles and state maps.

9. Freedom Fighter Interview

Topic: History

Pretend you interviewed a freedom fighter like:

Mahatma Gandhi

Bhagat Singh

Rani Lakshmbai

Write:

Questions asked

Their answers

Their feelings and struggles

Present it like a magazine interview.

10. My Sustainable Home Plan

Topic: Environment

Design ideas to make your home eco-friendly:

Rainwater harvesting

Solar panels

Waste segregation

Kitchen gardening

Write practical steps your family can follow.

Information – All odd roll numbers attempt odd number Activities

Roll No 1 to 5 – Activity 1 & 2
Roll No 6 to 10 – Activity 3 & 4
Roll No 11 to 15 – Activity 5 & 6
Roll No 16 to 20 – Activity 7 & 8
Roll No 21 to 25 – Activity 9 & 10

Holiday Homework – Class 8 Computer

Q1. – Fill in the Blanks

1. MS Access is a ____ management system.
2. A collection of related data is called a ____.
3. Rows in a table are called ____.
4. Columns in a table are called ____.
5. The primary key helps to identify each record ____.

Q2. – Multiple Choice Questions

1. Which software is used to create databases?

- a) MS Paint
- b) MS Access
- c) MS Word
- d) MS Excel

2. Which object is used to store data in Access?

- a) Query
- b) Form
- c) Table
- d) Report

3. Which key uniquely identifies a record?

- a) Foreign Key
- b) Space Key
- c) Primary Key
- d) Alt Key

4. Which data type is used for numbers?

- a) Text
- b) Number
- c) Currency
- d) Date/Time

5. Which object helps to print data neatly?

- a) Report
- b) Query
- c) Form
- d) Table

Q 3. True or False

1. MS Access is used to create presentations.
2. A table contains records and fields.
3. Queries help to search data.
4. Forms are used for easy data entry.
5. Reports cannot be printed.

Q 4 Short Answer Questions

1. What is MS Access?
2. What is a database?
3. Define table, field, and record.
4. What is the use of a primary key?
5. Name any four objects of MS Access.

Q 5 – Practical

Create a database named School and make a table called Students with the following fields:

Field Name

Data Type

Roll No Number

Name Text

Class Text

Section Text

Marks Number

Phone Number Number

Enter at least 10 student records in the table.

Create:

One form

One report

- **Note: paste the above assignment in your computer note book.**
- **Send your practical work on your subject teacher's personal WhatsApp number.**

Hindi

भाषा, लिपि, बोली, व्याकरण
तथा वर्ण विचार

कार्यपत्रिका



नाम कक्षा विभाग अनुक्रमांक

1. सही शब्द चुनकर खाली स्थान में लिखिए—
- (क) मन के भावों और विचारों को द्वारा प्रकट करते हैं। (भाषा)
(ख) अंडमान-निकोबार की राजभाषा है। (हिंदी, कोंकणी)
(ग) बिहार में बोली जाती है। (फ्रेंच, मैथिली)
(घ) भाषा को लिखने का ढंग है। (लिपि, बोली)

2. (क) उचित स्थान पर अनुस्वार लगाइए—
(i) गगा (ii) पखा (iii) कबल (iv) चचल
(ख) उचित स्थानों पर विसर्ग लगाइए—
(i) दुख (ii) नम (iii) प्रात (iv) अत

3. वर्ण-विच्छेद से शब्द बनाइए—
- (क) क् + ष् + अ + म् + आ =
(ख) ज् + ज् + आ + न् + अ =
(ग) ई + श् + व् + अ + र् + अ =
(घ) य् + अ + ज् + ज् + अ =
(ङ) व् + ऋ + क् + ष् + अ =

4. वर्ण-विच्छेद कीजिए—
- (क) प्रेमी
(ख) गलियारा
(ग) व्यक्ति
(घ) शिक्षित

5. निम्नलिखित भाषाओं की लिपियों के नाम लिखिए—

- (क) उर्दू
(ख) पंजाबी
(ग) जर्मन
(घ) गुजराती
(ङ) बांग्ला
(च) जापानी
(छ) संस्कृत

6. निम्नलिखित शब्दों में से संयुक्त व्यंजनों के प्रयोग से बने शब्दों तथा द्वित्व व्यंजनों के प्रयोग से बने शब्दों को अलग-अलग करके लिखिए।

चित्र दिल्ली ज्ञानी चम्मच भक्का कक्षा गुब्बारा परिश्रम नेत्र क्षत्रिय
सच्चा क्षेत्र ज्ञाता टक्कर सिक्का डिब्बा मित्र श्रेष्ठ कच्चा मुक्का

संयुक्त व्यंजन

द्वित्व व्यंजन

7. निम्नलिखित शब्दों में सही स्थान पर अनुस्वार अथवा अनुनासिक चिह्नों का प्रयोग करते हुए शब्दों को पूरा लिखिए।

चद्रमा परमहस सुर पतग ऊची मै मुठ

↓ ↓ ↓ ↓ ↓ ↓ ↓

8. 'डू' और 'डु' वर्ण वाले चार-चार शब्द लिखिए—

.....

.....

9. नीचे लिखे वाक्यों को शुद्ध करके दोबारा लिखो।

क. तुम उधर पर बैठो।

ख. वह भारा दिनभर खेलता रहा।

ग. वह दर्शन देने आया।

घ. मेरा काला बकरी बाहर गई।

ङ. मेरे को कुछ नहीं चाहिए।

10. नीचे लिखे शब्दों में से शुद्ध शब्द छोटकर दिए गए स्थान पर लिखो।

क. पुरति पूति पूर्ती

ख. आशीवांद आशिवांद आशीजाल

ग. बन्दना बंदना बदना

घ. परीक्षा परिका परीछा

ङ. व्यकति व्यत्रित वयक्ति

11. निम्नलिखित शब्दों को मानक रूप में लिखो।

क. शुद्ध ख. चन्वल ग. मिट्टी

घ. सन्ध्या ङ. बुद्धि च. हंसमुख

नाम कक्षा विभाग अनुक्रमांक

रिक्त स्थान की पूर्ति कीजिए-

- (क) संधि तीन प्रकार की होती हैं _____ और _____ संधि।
 (ख) दो वर्णों के परस्पर मेल को _____ कहते हैं।
 (ग) संधि किए गए शब्दों को अलग-अलग करके लिखने को _____ कहते हैं।

निम्नलिखित चित्रों से संबंधित ऐसे नाम लिखिए, जिनमें कोई संधि हो-

उदाहरण :



नदी + ईश = नदीश







संधि कीजिए-

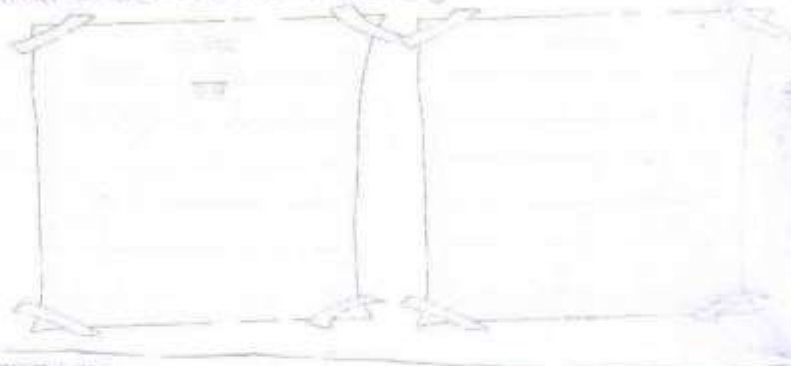
- (क) परम + ईश्वर (ख) ज्योतिः + मय
 (ग) रमा + उत्सव (घ) एक + एक
 (ङ) भारत + इंदु (च) पुरुष + उत्तम
 (छ) झंडा + उपदेश (ज) प्रति + एक

संधि-विच्छेद कीजिए-

- (i) तपोबल = + (ii) नीरोग = +
 (iii) निष्कंठक = + (iv) दुर्गुण = +
 (v) पुनर्जन्म = + (vi) अधोगति = +

5.

यदि निम्नलिखित शब्दों को एक ही शब्द में जोड़ें तो वह शब्द क्या होगा?



6. उचित विकल्प पर ✓ निशान लगाइए-

(क) लड़के खेल रहे हैं।	एकवचन <input type="checkbox"/>	बहुवचन <input type="checkbox"/>
(ख) डाँधो घूम रहा है।	एकवचन <input type="checkbox"/>	बहुवचन <input type="checkbox"/>
(ग) गुरुजन सम्मान के पात्र हैं।	एकवचन <input type="checkbox"/>	बहुवचन <input type="checkbox"/>
(घ) लड़की नाच रही है।	एकवचन <input type="checkbox"/>	बहुवचन <input type="checkbox"/>
(ङ) मुख्य अक्षरपत्र आ रहे हैं।	एकवचन <input type="checkbox"/>	बहुवचन <input type="checkbox"/>
(च) आप फस आए?	एकवचन <input type="checkbox"/>	बहुवचन <input type="checkbox"/>

7. सही विकल्प छोटकर लिखिए कि कच्चा जोड़ने से उसका बहुवचन रूप बनेगा-

(क) गुड़िया - (इस/) - गुड़ियाँ	(ख) मकड़ी - (ए/) - मकड़ियाँ
(ग) लिपि - (य/) - लिपियाँ	(घ) पत्ता - (ए/) - पत्तियाँ
(ङ) कला - (ए/) - कलाएँ	(च) संदी - (य/) - संदियाँ

8. विशेषण शब्दों के बहुवचन रूप लिखकर वाक्य पुनः लिखिए-

(क) हरा अंगूर खट्टा होता है।	हरे अंगूर खट्टे होते हैं।
(ख) पीला फूल सुंदर होता है।	
(ग) गुलाब का फूल कटीला है।	
(घ) फूल पर काला भँवरा आया है।	
(ङ) छोटा बच्चा पढ़ रहा है।	

क्रियाकलाप

सोचें और बताएँ

यदि 752643 का अर्थ समाचारपत्र है तो निम्नलिखित शब्द कैसे लिखेंगे?

जैसे- पर - 46, पत्र - , मात्र - , मास - , पचास -

0. आपका स्कूल पिकनिक पर जा रहा है और रास्ते में आपकी बस खराब हो गई तो आप इस समस्या का हल किस प्रकार करके सबके बीच हीरो बनेंगे। आपके अपने शब्दों में 14 शीट पर लिखकर बताइए।
1. प्रथम इकाई परीक्षा पाठ्यक्रम की पुनरावृत्ति कीजिए।