PM SHRI KENDRIYA VIDYALAYA CHITTARANJAN

CLASS 8 MATHS HOLIDAY HOMEWORK

ACTIVITY 01: Fraction Pizza Party (Prepare this activity on a chart paper)

Material Required

- 1. Large paper circles (representing pizzas)
- 2. Coloured markers or crayons
- 3. Scissors
- 4. Multiple flashcards with fraction amounts (for example, 2 pieces of 1/2, 4 pieces of 1/4 and 6 pieces of 1/6)

Procedure 1. Divide students into small groups and give each group a paper pizza. 2. Call 1 student from each group and ask them to choose 1 set of fractions. 3. Ask them to cover pizza paper with the help of fractions one-byone. 4. No gap and no overlapping are allowed. 5. Find out and note down "How many total slices are left" after putting each slice? 6. Take ½ parts and combine them to form a whole. How many such parts do you see, are required?

7. Take the 1/8th parts and combine them to form a whole. How many 1/8 parts would be required to make a whole? One way to find this is: 1/8 + 1/8 = 2/8 2/8 + 1/8 = 3/8 3/8 + 1/8 = 4/8 4/8 + 1/8 = 5/8, etc.

Questions for Exploration

1. If you combine all the slices given to you, can you make a whole pizza again?

2. After placing first 1/2 piece, how many pieces do you need to complete the whole pizza? Will 1/2 + 1/2 pieces give a whole pizza?

3. After placing first 1/3 piece, how many pieces do you need to complete the whole pizza?

¾ Was the remaining area covered by 2 pieces of 1/3?

³⁄₄ Could 1/3 + 1/3 + 1/3 pieces complete the whole pizza?

4. After placing first 1/4 piece, how many pieces do you need to complete the whole pizza?

¾ Does remaining area got covered by 3 pieces of 1/4?

¾ Does 1/4 + 1/4 pieces completed the whole pizza? If not, then how many pieces are required?

¾ Does it mean that 1/4 + 1/4 is equal to half or 1/2? Can we say

1/4 + 1/4 + 1/4 = 3/4?

 $\frac{3}{4}$ Does $\frac{1}{4} + \frac{1}{4} + \frac{1}{4} + \frac{1}{4}$ pieces complete the whole pizza?



2. Solve the puzzle :

If the following equations are true:



Then solve these:



- 3. Write square and cubes of numbers from 01 to 30
- 4. Find the squre roots of following numbers by prime factorization method

625, 2025, 961, 729, 529, 289, 1369

5. Find the cube roots of following numbers by prime factorization method

1331, 1728, 8000, 5832, 2744

- 6. Write all the properties and draw diagram of
 - 1. Square, 2. Rectangle, 3. Parallelogram,
 - 4. Rhomus, 5. Trapezium, 6. Kite

7. ACTIVITY 02: COMPLETE THE ACTIVITY IN MATHS NOTEBOOK

Write numbers from 1 to 100 then classify them in Even , odd ,prime ,perfect square and perfect cube , write numbers from 1 to 100 then classify them in Even , odd ,prime ,perfect square and perfect cube ,

Q.8.. In a test (+5) marks are given for every correct answer and (-2) marks. Are given for every incorrect answer.

- (i) Radhika answered all the questions and scored 30 marks though she got 10 correct answers.
- (ii) Jay also answered all the questions and scored (-12) marks though he got 4
- (iii) Correct answers. How many incorrect answers had they attempted?

Q.9.. An elevator descends into a mine shaft at the rate of 6 m/min. If the descent starts from 10 m above the ground level, how long will it take to reach – 350 m.

Q.10. Revise the properties of integers.

Q.11. Download and watch the movie "The man who knew Infinity". Write the 10 things that you liked the most. Write two ideas which inspired you to study Mathematics.

Q. 12.. Choose a calendar of any month of the year and find the odd numbers, even numbers, square numbers & cube numbers from it.

Q. 13.. Make different types of polygons using chart paper.

Q. 14.. Make 5 stacked square patterns & 5 stacked triangle patterns using chart paper.



Fill in the missing numbers:

- 1. The missing values are the whole numbers between 1 and 16.
- 2. Each number is only used once.
- 3. Each row is a math equation.
- 4. Each column is a math equation.

Remember that multiplication and division are performed before addition and subtraction.



पीएम-श्री-केन्द्रीय-विद्यालय-अण्डालः



सत्रम् – २०२४-२५

कक्षा- ८ अष्टमी

विषयः - संस्कृतम्

विषयाध्यापकः – आशीषचौहानः



प्रश्न १. निम्नलिखित शब्दों के रूप लिखकर याद करें – अस्मत्, युष्मत्, यत् (तीनों लिंगों में) इदम् (तीनों लिंगों में), मातृ।

प्रश्न २. निम्नलिखित धातुओं के पाँच लकारों (लट्, लृट्, लङ्, लोट्, विधिलिङ्) में लिख किसी एक धातु के रूप को याद करें – गम् (गच्छ), रक्ष्, खाद्, पृच्छ, पठ्।

प्रश्न ३. संस्कृत में संख्यावाचि शब्द १ – १०० तक लिखें।

प्रश्न ४. प्रथम पाठ 'सुभाषितानि' के श्लोक अर्थसहित याद करें। प्रश्न ५. ''मम विद्यालयः '' इस विषय पर पांच पङ्क्तियों में निबन्ध लिखें।

बहु-अनुशासनिक-परियोजना (MDP)

१. जंगल में पाए जाने वाले कोई भी पांच पेड़ों के नाम संस्कृत में लिखिए। २. जंगल में पाए जाने वाले 8 जानवरों/पक्षियों का चित्र चिपकायें व उनका नाम संस्कृत में लिखिए।

PM SHRI K.V. CHITTARANJAN HOLIDAY HOMEWORK (SUMMER BREAK – 2025)

CLASS: (III – X) SUBJECT: A.I. / D.L.

CLASS	DETAILS OF HOME WORK
	Answer the following:
	1. What is IPO Cycle (Understanding how a computer operates)?
	Describe the Types of Computers according to their sizes.
	3. Draw the parts of a Computer, label them and describe about them.
IV	Answer the following:
	1. What is ABACUS? Make a diagram of it.
	2. Describe the Classification of Computers.
	3. Describe the parts of a Computer. (Input Devices, Output Devices, Storage Devices)
	(* Make diagrams wherever required)
V	Describe the Evolution of Computers:
	(1 st Generation Computers to 5 th Generation Computers)
	(* Make diagrams wherever required)
VI	1. Explain the Generations of Computers: (Make a Table and explain them in details.)
	2. Describe the Computer Programming languages.
	3. Mention about the Applications of Computers. (Any six)
VII	 Describe the "Types of Computers" (Make diagrams wherever needed)
	2. Explain the Data Representation and Number System (Binary, Decimal, Octal & Hexadecimal)
	(Give some examples of conversion from Decimal to Binary Numbers :)
VIII	1. Explain the following Early Computing Devices:
	a) ABACUS b) Jacquard Loom c) Analytical Engine d) ENIAC
	2. Write a short note about Artificial Intelligence.
	3. Multiple Choice Questions (Q. No 1 to Q. No 10 of Chapter: "Basics of ICT" – Page 21 of Text Book.
IX	1. Unit 1. Communication Skills
	 Do the Assertion & reasoning Questions
	Do the Competency Based Question
	2. Unit 2. Self-Management Skills
	 Do the Assertion & Reasoning Questions
	Do the Competency Based Questions
Х	1. Unit 1. Communication Skills
	 Do the Assertion & reasoning Questions
	Do the Competency Based Question
	2 Unit 2 Self-Management Skills
	Do the Assertion & Reasoning Questions
	Do the Assertion & Reasoning Questions Do the Compotency Pased Questions
	Do the completency based Questions Do the completency based Questions
	5. Utill 5. DdSIL ICT SKIIIS
	Knowing About Operating System (Do the Check Points & Assignments)

PM SHRI KENDRIYA VIDYALAYA CHITTRANJAN

<u>Summer Vacation Homework 2025-26</u> CLASS VIII (Science)

A)

1. Prepare a Project/Model for Science Exhibition, also prepare a 10 pages report in a file for the said project/model.

2. **MDP**: Write an essay (in 120 words) about various agricultural practices followed in Tamil Nadu. Also paste four pictures of various agricultural implements used there.

B) Make a chart paper and draw tables of showing plant and animal disease (disease name, causative agent, mode of transfer) and also draw a table of useful microorganisms (Name of microbes and their function).

C) Answer the following questions in your science notebook:

- Q. 1) What is the role of legumes in a crop rotation programme?
 - A. To prevent soil erosion
 - B. To prevent diseases of crop plants
 - C. To increase soil fertility
 - D. To prevent water loss from the soil
- Q. 2) Which method of irrigation conserves maximum amount of water?
- A. Dhekli system
- B. Drip system
- C. Sprinkler system
- D. Moat system
- Q. 3) Which of the following diseases can be prevented by vaccination?
 - A. Hepatitis
 - B. Diabetes
 - C. Goiter
 - E. Scurvy
- Q.4) State the differences between manures and fertilisers.

Mahesh uses a cultivator for ploughing, whereas Satish uses a hoe for ploughing. What advantage does Mahesh over Suresh?

Q. 5) You must have seen dry fruits being sold in sealed, airtight packets. What is the reason for this?

(ii) Why should we preserve food properly? Write different methods of food preservation.

Q. 6) Which of the following is false about antibiotics?

- A. Antibiotics should be taken only on the advice of a qualified doctor.
- B. Taking antibiotics when not needed or in wrong doses may make the drug less effective when you need it in
- C. Antibiotics taken unnecessarily may kill the beneficial bacteria in the body.
- D. Antibiotics are highly effective for curing diseases caused by viruses.
- Q. 7) Citrus canker and measles are both
- A. Water-borne diseases
- B. Insect-borne diseases
- C. Air-borne diseases
- D. Seed-borne diseases

Q. 8) What is vaccination? Give two differences between antibody and antibiotics.

पीएम श्री केंद्रीय विद्यालय चित्तरंजन

ग्रीष्मकालीन अवकाश गृहकार्य

कक्षा- आठवीं

विषय-हिंदी

- 1. पंद्रह सब्जियों के नाम लिखकर चित्र चिपकाइए।
- 2. एक से पचास तक हिंदी गिनती का मानक रूप लिखिए।
- ग्रीष्मकालीन अवकाश के दौरान अपने द्वारा घूमे गए किसी पर्यटन स्थल का सचित्र वर्णन कीजिए।
- आप अपने मित्र के जन्मदिन पर उपस्थित नहीं हो सके। अतःक्षमा प्रार्थना करते हुए अपने मित्र को पत्र लिखिए।
- 5. 'आठवीं' कक्षा में आपका पहला दिन' विषय पर दस वाक्य लिखिए।

नोट. यह गृहकार्य A4 साइज पेपर पर कीजिए।