

ST. THOMAS SCHOOL, SAHIBABAD
HOLIDAY HOMEWORK ASSIGNMENT

Sub – Mathematics

Class – VIII

Solve the following in a separate notebook:

1.	Write the multiplicative identity of rational numbers.
2.	What is the additive identity of rational numbers?
3.	If $a = \frac{1}{2}$ and $b = \frac{3}{4}$, show that commutative property holds for addition of rational numbers.
4.	Verify the associative property for multiplication of rational numbers if $a = \frac{4}{5}$, $b = \frac{2}{3}$, and $c = \frac{1}{2}$
5.	Write the rational numbers which do not have a multiplicative inverse.
6.	Write the rational numbers for which the multiplicative inverse is same as the number itself.
7.	What is the sum of a number and its additive inverse?
8.	What is the product of a number and its multiplicative inverse?
9.	What is the other name for multiplicative inverse of a number?
10.	Represent $\frac{4}{9}, \frac{2}{9}, \frac{6}{9}$ and $\frac{11}{9}$ on a number line.
11.	Find seven rational numbers between 5 and 6.
12.	Find Six rational numbers between $\frac{2}{5}$ and $\frac{3}{4}$.
13.	How many rational numbers are there between any two rational numbers?
14.	Solve the following: $-\frac{4}{5} \times \frac{3}{7} + \frac{4}{5} \times \frac{3}{7}$
15.	Find the product of $\frac{5}{8}$ and the reciprocal of $-\frac{3}{8}$.
16.	Write the additive inverse of $-\frac{6}{7}$.
17.	Which of the following is not a rational number? $\frac{6}{7}, -\frac{1}{2}, 0, \frac{1}{0}, \frac{0}{100}$
18.	Identify the rational number which is different from the others: $\frac{2}{3}, -\frac{4}{5}, -2, \frac{3}{5}$
19.	Amit works out at a gym for three quarters of an hour. He uses the treadmill for half the total workout sessions time and one third on cycle. Find the total time he spends on other miscellaneous exercises.
20.	Without adding find the value of $1 + 3 + 5 + 7 + 9$

21.	How many numbers lie between 25^2 and 26^2 ?
22.	Observe the pattern and fill in the blanks: $3^2 - 2^2 = 3 + 2$ $4^2 - 3^2 = 4 + 3$ a) $100^2 - 99^2 = \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$ b) $98^2 - 97^2 = \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$
23.	Find the square root of the following numbers using long division method: a) 998001 b) 309136 c) 204.49 d) 778.41
24.	The PT instructor wants to arrange the students in such a way that each row has as many students as the number of rows. If there are 5090 students, how many more students are needed to complete the arrangement?
25.	Each side of an isosceles right-angled triangle is 10 cm. Find the length of its hypotenuse correct to one decimal place.
26.	By which smallest number should we divide 2448 to make it a perfect square?
27.	Find the Pythagorean triplet whose one term is 17.
28.	Write the units digit of the square of 179.
29.	Write the possible units digit of the square root of 5041.
30.	Find the square root of 225 using repeated subtraction.

Maths Activities

Instructions: Do any two activities of your choice:

1. Note the last 6 digits of five mobile numbers:

a) Find their square roots using division method.

b) If the numbers are not perfect squares, find

i) The smallest number which should be subtracted to make it a perfect square number.

ii) The smallest number which should be added to make it a perfect square number.

2. Take five A4 sheets. Fold each of them to make a different cuboid. (Use the complete sheet without cutting)

3. Throw a die 15 times. Note down the result in the form of a frequency table using tally marks. Draw a bar graph for the data obtained.

4. Draw a parallelogram, a rectangle, a rhombus and a square. Find the relations between the sides, angles and diagonals for each of them. Note the relations in the form of a table.

5. Draw a city plan on an A3 sheet showing various landmarks with roads running parallel or perpendicular to one another.

ST. THOMAS SCHOOL, SAHIBABAD
HOLIDAY HOMEWORK (2021-2022)

SCIENCE
CLASS VIII
PHYSICS

***Note- Answer the following in your physics notebook**

1. While sieving grains, small pieces fall down. Which force pulls them down?
2. Name the force exerted on a ball of dough to make a flat chapati.
3. What is meant by atmospheric pressure?
4. Two persons are applying forces on two opposite sides of a moving cart. The cart still moves with the same speed in the same direction. What do you infer about the magnitudes and direction of the forces applied?
5. Define pressure.
6. A force of 100 N is applied on an area of 4 m². Compute pressure being applied on the area.
7. Two thermocol balls held close to each other move away from each other. When they are released, name the force which might be responsible for this phenomenon. Explain.
8. What are the effects of force on an object?
9. We know that there is a huge amount of atmospheric pressure on us. But we do not experience its effect why?
10. Why do sea divers wear specially designed suits?
11. Two rods: A and B, having the same weight and equal length have different thickness. Rod A is thinner while Rod B is thicker. They are held vertically on the surface of sand. Which one of them will sink more? Why?
12. It is difficult to cut cloth using a pair of scissors with blunt blades. Explain.
13. Why is it easier to walk on soft sand if we have flat shoes rather than shoes with sharp heels (or pencil heels)?
14. Activity
Record your observation.
Take a tumbler and fill it with water. Cover the mouth of the tumbler with a thick card similar to that of a postcard. Hold the tumbler with one hand while keeping the card pressed to its mouth with your other hand. Turn the tumbler upside down while keeping the card pressed to its mouth. Make sure that the tumbler is held vertical. Gently remove the hand pressing the card. What do you observe? Does the card get detached allowing the water to spill? With a little practice you will find that the card continues to hold water in the tumbler even after it is not supported by your hand. Also try this activity by using a piece of cloth to hold the tumbler in an upside-down position.

CHEMISTRY

Answer the following in your chemistry notebook.

1. Give three uses each of nylon and acrylic.
2. Define the following
(a) Polymer (b) Synthetic fibre
3. (a) Which material is used for making plugs, switches?
(b) Name the plastic used for making non-stick pans.
(c) Give one reason to support the use of Teflon in non-stick pans.
4. Give examples, which indicate that nylon fibres are very strong
5. Name the plastic whose sheets are used for packing liquids.
6. How is artificial silk made?
7. Why is nylon used for making parachutes?
8. Can bacteria break down plastics?
9. Write any three important properties and uses of nylon.

10. Give the characteristic properties and important uses of the following
(i). Polythene (ii). Polystyrene (iii). Teflon

ACTIVITY WORK:

INSTRUCTIONS: DO ANY 2 ACTIVITIES OF YOUR CHOICE.

1. To prepare an electric tester to check the conductivity of metals and non-metals.
2. Make a model/chart depicting 4R's of dealing with plastic waste.
3. Make a chart/model depicting-Air pollution & its causes OR Water pollution & its causes.

BIOLOGY

1. Prepare a chart showing irrigation methods practiced in different states of India. The chart could include a map of India. You can use books/ internet for collecting information.

ग्रीष्म अवकाश - गृह कार्य

विषय -हिन्दी (२०२१-२२)

कक्षा- 8

प्रश्न -1 आधारशिला में पाठ -3 शब्द भंडार के प्रत्येक भाग (अनेकार्थक शब्द, पर्यायवाची शब्द, विपरीत शब्द ,अनेक शब्दों के लिए एक शब्द व श्रुतिसमभिन्नार्थक शब्द) के 1 से 20 तक शब्दों को सुंदर लेख में व्याकरण कॉपी में लिखे व याद करें ।

प्रश्न -2 बसंत पुस्तक के पठित पाठों को पुनः पढ़कर उनके प्रश्न उत्तर व शब्द अर्थ याद करें।

प्रश्न -3 कृष्ण जी की विभिन्न लीलाओं का एक सुंदर कोलाज बनाइए। (ए -4 शीट पर)

सेंट थॉमस स्कूल , साहिबाबाद

ग्रीष्मावकाश गृहकार्य , कक्षा – आठवीं , विषय – संस्कृत

सत्र – 2021- 22

- 1) पढ़ाए गए पाठों को फिर से पढ़ कर उनके प्रश्नोत्तर याद करें।
- 2) व्याकरण की पुस्तक से पर्यायवाची शब्द (पर्याय) 1 से 50 तथा विलोम शब्द (विपर्यय) 1 से 25 तक लिखकर याद करें।
- 3) 'साधु' तथा 'देव' का शब्द रूप लिखकर याद करें।
- 4) एक पेज सुलेख प्रतिदिन अपनी व्याकरण की कॉपी में लिखिए।
- 5) पाठ में आए कठिन शब्दों के अर्थ याद कीजिए।
- 6) 'क्रीड्' तथा 'पा' धातुओं के रूप लट् तथा लृट् लकार में लिखकर याद करें।

HOLIDAY HOMEWORK (2021-22)
SOCIAL SCIENCE
CLASS-VIII

 **Learn Lesson 1 of History, Civics and Geography.**

 **Do any one of the following activity-**

- Make a list of tribal groups living in India and write about any two tribal group's customs and their way of lives in India. (Tribals Dikus., L-4)
(HISTORY)

Or

- On an outline world map mark the following –
 - a) Iron producing areas
 - b) Copper producing areas
 - c) Bauxite producing areas(Resources and Development, L-3 Mineral and Power Resources, pg no. 26(or 24 in new edition) **(GEOGRAPHY)**

Or

- Design a poster highlighting 'Equal Relationships are Violence Free'. Explain what do you understand with this statement?
(Social and Political life-III, L-4 Understanding Laws, pg. No. 48) **(CIVICS)**

INSTRUCTIONS-

- DO THE ACTIVITY IN YOUR CLASS NOTEBOOK.
- WRITING SHOULD BE NEAT AND CLEAN.
- LAST DATE TO UPLOAD ACTIVITY ON TEAMS ASSIGNMENT SECTION IS 26th MAY.

St. Thomas School

English Holiday Home-work

Class VIII (2021-22)

Q1. During COVID-19 many different people like Doctors, Police personal etc have helped all of us. Make a THANKYOU NOTE in the shape of Greeting Card. Give your card a colorful look. Keep the following points in mind. How valuable the help was? Your feelings of gratitude.

Q2 Take Poem Ant and the cricket and convert it into a conversation between the Ant and the Cricket.

Q3. Complete your notebook and revise all the chapters done.

- Do Q1 & 2 in your language notebook.

Stay home, stay safe

ST.THOMAS SCHOOL SAHIBABAD

HOLIDAY HOME WORK

SUBJECT- COMPUTER

CLASS VIII

1. Make a PowerPoint Presentation on the topic "Computer Networking " (at least 10 slides). **Upload the PPT in MST assignment section.**

2. Draw the diagrams of the following networks.

a) LAN b) MAN c) WAN d) PAN e) CAN

3. Write down the full forms for the following-:

LAN, WAN, MAN, PAN, CAN, IMAP, POP, TCP/IP, FTP, SMTP, HTTP, DNS, URL, ISP, Wi-fi,
IETF, mbps, kbps, PCI

4. Name all the networking devices studied in the chapter and write its function.

5. Give 2 examples each of different types of computer network.

6. Give few examples of network that you see in your daily life.

Note –Do Q 2,3,4,5,6 in your computer note book. Upload the assignment in MST assignment section.

St. Thomas School Sahibabad
Music Holiday Homework
Class-VIII

NOTE :The Holiday Homework is to be done in a separate thin notebook.

1. Write Vandana (prayer) Maa Sad Gamaya in English
(Refer page no. 27 of school dairy) .
2. Write “Introduction of Music”. You can watch my video...
“basic (87) music Instrument”. 88,89, and also 90.
3. Write Prayer- I come before you today. (Refer page no. 28 of school dairy).

DANCE HOLIDAY HOMEWORK

Practice any 5 basic steps taught through videos.

{ Stay safe, Stay at home, practice }

Art & Craft Holiday Homework

Draw a Landscape with Human and Animal Figures

HOLIDAY HOMEWORK

Physical Education

Physical activity needs to be maintained as it is extremely beneficial to body and mind. It is important for controlling diabetes and high blood pressure. Maintaining bone strength and muscle tone through exercise is important especially as the regular outdoor activity is curtailed during the COVID -19 pandemic.
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Perform and practice the following yoga exercises at home:

https://youtu.be/BRIRatBz2Mo
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