BHARATIYA VIDYABHAVAN'S ATMAKURI RAMA RAO SCHOOL

ROAD NO: 45(END), JUBILEE HILLS, HYDERABAD-500033

Class VIII – Holiday Homework May -2022

Subject : Maths

Part - A

Chapter Name: Rational Numbers

Activity 1: Crossword puzzle

Solve the given crossword filling up the given boxes. Clues are given below for across as well as downward filling. Also, for across and down clues, clue number is written at the corner of the boxes. Answers of clues have to be filled in their respective boxes.

Down 1: $\frac{2}{3}$ and $\frac{-5}{4}$ are _____ numbers.

Down 2: The _____ inverse of $\frac{a}{b}$ is $\frac{-a}{b}$.

Down 3: The addition and multiplication of whole number integers and rational numbers is _____.

Down 4: Since $\frac{1}{0}$ doesn't exist hence 0 has no _____.

Down 5: The number line extends _____ on both the sides.

Down 6: The _____ of two integers may not lead to the formation of another integer.

Down 7: The multiplication of a number by its reciprocal gives _____.

Down 8: Rational numbers can be represented on a _____ line.

Across 1: There are _____ rational numbers between two integers.
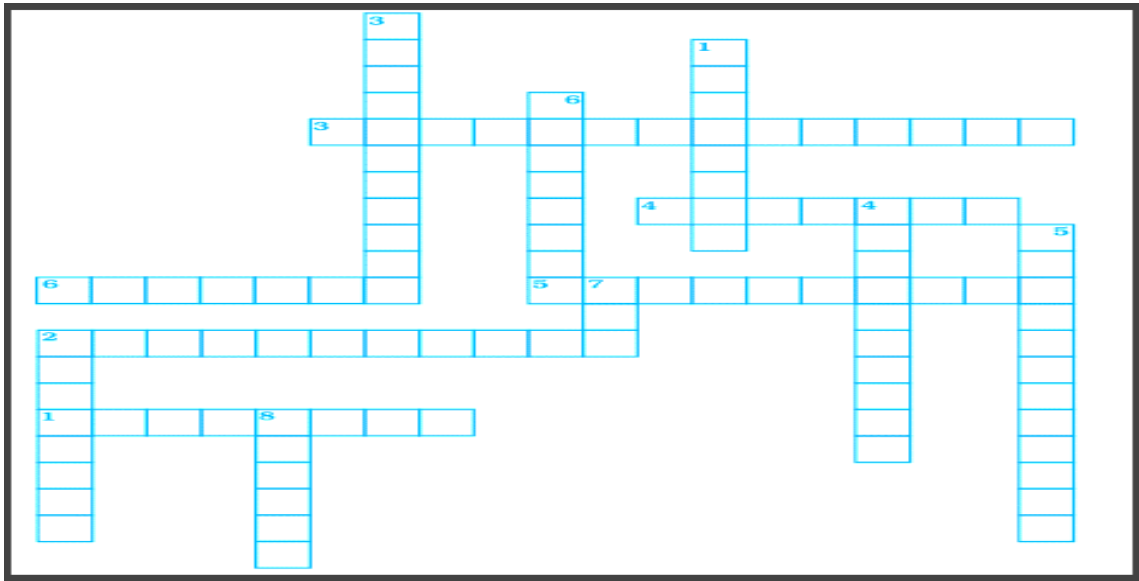
Across 2: The multiplication of rational numbers is commutative and _____.

Across 3: The addition and _____ of two rational numbers lead to the formation of another rational number.

Across 4: All the positive integers excluding 0 are known as _____ numbers.

Across 5: For any rational a ; $a \div 0$ is _____.

Across 6: Reciprocal is also known as the multiplicative

Activity 2: Break the code

Solve this riddle by reducing each rational number to its lowest term. The magnitude of the numerator of rational number so obtained gives you the letter you have to encircle in the word following it. Use the encircled letters to fill in the blanks given below:

S.No.	Rational Number	Lowest Term	Word
(1)	$\dfrac{-12}{30}$		SPIN
(2)	$\dfrac{-24}{-36}$		TYPE
(3)	$\dfrac{39}{52}$		WITH
(4)	$\dfrac{-48}{144}$		HOST
(5)	$\dfrac{27}{90}$		SHARP
(6)	$\dfrac{-34}{-170}$		GAIN
(7)	$\dfrac{76}{95}$		PROOF
(8)	$\dfrac{46}{-92}$		RAIN
(9)	$\dfrac{29}{116}$		AWAY
(10)	$\dfrac{14}{-42}$		SWEET

1	2	3	4	5	6	7	8	9	10
___	___	___	___	___	___	___	___	___	___
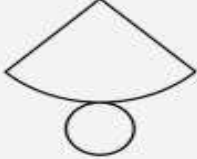
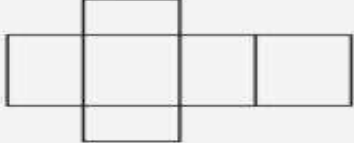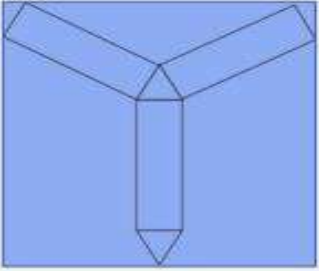### Activity 3: CHINTU'S BIRTHDAY PARTY

It was Chintu's 12th birthday last Monday. He received many gifts from his friends and relatives. The gifts were packed in boxes of different shapes. Though he was very happy about all the gifts, he was more excited for the gifts his best friends, Rohan, Anuj and Ayush got him. Rohan gifted him a Pencil Box, Anuj gifted a Rubik's Cube and Ayush gifted a Toblerone Chocolate bar. They enjoyed many savouries and sweets such as ice-creams, cakes and candies.

a. Match the items with the net of their boxes.

	Item		Net
i		A	
ii		B	
iii		C	

b. Complete the following table.

Item	No. of Vertices	No. of Faces
Toblerone Chocolate bar		
Rubik's Cube	8	
Ice-Cream Cone		2

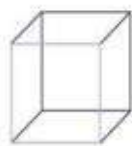c. How many Rubik's cubes of side 8cms does Chintu need to make a bigger cube of size 16cms.
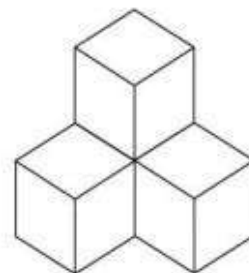
d. Draw a net for the Rubik's Cube.

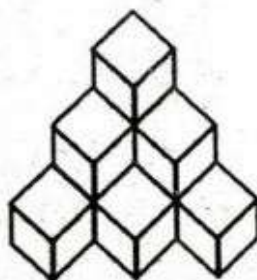## Activity 4: STEP PATTERN

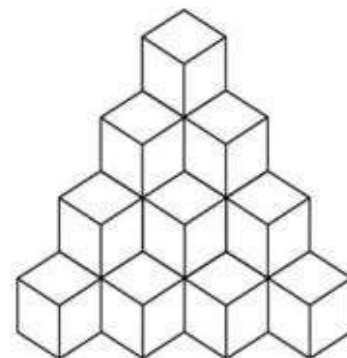| Description of item:	Arman likes to build step pattern using from small identical cubes like the one shown in the following diagram: Arman has lots of small cubes. He uses glue to join cubes together to make other blocks pattern as shown below.
	 Stage I Stage II Stage III Stage IV

He uses one cube for stage I, four cubes for stage II.

Que 1. How many cubes will he use for stage III?

Que 2. How many cubes will he use for stage IV?

Que 3. How many number of squares will be there in top view of this stage II arrangement?

Que 4. Are the numbers of squares in the top view, side view and front view the same?

Yes / No

Part – B

Complete the worksheet posted in Google Classroom in the Math homework book.

Subject : Science

I. Visit an Agricultural farm near your locality. Observe and note down the agricultural practices and implements /tools used.

Interview the farmer and make a report of the following:

Agricultural Practice	Implement Used

II. Identify Kharif and Rabi crops grown in Telangana and Haryana states.

Do the comparative study of the following:

    a) Agricultural Practices
    b) Agricultural Implements
    c) Types of soil
    d) Fertilizers used
    e) Harvesting methods
    f) Storage methods

Subject : Social Science

   ➢ Do a project work on the topic **THE CONSTITUTION OFINDIA**.
   ➢ The project work should be of 10-12pages.
   ➢ It should be handwritten.
   ➢ It should be written on only one side of the page.
   ➢ The project work should be supported with relevant pictures and presented in a creative manner.

➤ The guidelines for the project work are as follows:

Page 1: Title page: name, class, section etc.

Page 2: Index

Page 3: Introduction to the topic – What is a constitution? Why do we need it?

Pages 4-8

- Founding Fathers of our constitution
- Interesting facts of our constitution
- Preamble of The Indian Constitution
- Fundamental Rights and Fundamental Duties
- Research and find about the constitution of our neighboring countries and write in brief about what it is called, when it was enforced, its founder members etc.

Page9: Bibliography (Name of sites/sources from which you took the information)

Page 10: Teacher's remarks (give the heading and leave the page blank)

Subject : English

1. Read any novel of RK Narayan /Ruskin Bond and make a story booklet using illustrations, Cartoon figures, sketches, dialogues etc to make your booklet interesting and lively.
2. Make a habit of reading English Newspaper daily and write 5 lines of the headlines in cursive.

Subject : Telugu

- వేసవి సెలవులు ప్రారంభమయ్యే రోజు నుండి మగిసేవరకు ప్రతిరోజు తెలుగు దినపత్రికలు చదువుతూ వాటిలోని ఐదు ముఖ్యాంశాలను (హెడ్ లైన్స్) వ్రాయండి.

Subject : Hindi

क्ष,त्र,ज्ञ,श्र वर्णों का प्रयोग शब्द के आरंभ, मध्य, अंत में करते हुए पाँच-पाँच शब्दों की सूचि तैयार कीजिए।

ग्रीष्मकालीन अवकाश गृहकार्य

कक्षा - 8

'क्ष', 'त्र', 'ज्ञ', और 'श्र' वर्ण का प्रयोग शब्द के आरंभ, मध्य और अंत में करते हुए पाँच-पाँच नए शब्दों का निर्माण कर सूचि तैयार कीजिए |

क्र.सं	वर्ण	आरंभ	मध्य	अंत
उदा.		क्षमा	अक्षर	कक्षा
1.				
2.				
3.	क्ष			
4.				
5.				
1.				
2.				
3.	त्र			
4.				
5.				
1.				
2.				
3.	ज्ञ			
4.				
5.				
1.				
2.				
3.	श्र			
4.				
5.				