

Dear Parents, It is summer vacation, a time to relax as well as fruitfully occupy the children in various scholastic and co –scholastic areas. Kindly motivate and lend support to your children and ensure that they complete the work well in time and to the best of their ability. Your encouragement can actually make a huge difference to the learning outcomes.

Dear Children, We are sure that all of you must be excited for your holidays. We wish that you enjoy every minute of this long break with your family and friends. It will be great if you are able to find time to learn new things, read as many story books as you can, tap into new hobbies, do yoga, meditation and exercise, grow plants, draw, paint, dance, sing and even help your parents and grandparents.

True, it is time for fun and frolic and although enjoyment is intrinsic, we believe in nurturing the mind and body. So we have put together a variety of fun-filled activities and worksheets that we hope will keep you occupied

during this time. Do them neatly and submit the worksheets to your teachers after the vacation.

We wish you a fun filled summer break, full of activities.

General instructions:-1) Attempt your work neatly.

2) Use sheets or old notebooks (whichever is available) to do the worksheets.

3) Write your Name, Class-section and assemble all the sheets Subject-wise in one folder

कक्षा :- 8.

विषय :- हिन्दी

मौखिक कौशल अवकाश कृत्रिम कार्य :-

1. कोरोना योद्धाओं का मनोबल बढ़ाने हेतु हमारे मन्त्रीय प्रधानमंत्री ने जिन दो गतिविधियों (छाली खजाना रात में दीप जलना) का सहारा लिया। क्या आपने भी इन गतिविधियों में भाग लिया यदि हाँ तो अपने और अपने परिवार के अनुभव विस्तार से अपने शब्दों में लिखें।
2. भाषा के तीनों रूपों का प्रयोग करते हुए चित्र के माध्यम से समझाएँ कि कौन-सी भाषा का उदाहरण है व उनके नाम लिखें। (A4 Size Sheet)
3. पृष्ठ :- हमारे जीवन का आधार या पृष्ठ को प्रकृति का अनुपम वरदान क्यों कहा गया है इस विषय पर अपने शब्दों में अनुच्छेद लिखें।

हिन्दी 0यमसरा :- निम्नलिखित प्रश्नों के उत्तर दीजिए :-

- (क) राजभाषा और राष्ट्रभाषा से आप क्या समझते हैं भारत की राष्ट्रभाषा क्या है संविधान सभा के द्वारा इसे कब मान्यता दी गई?
- (ख) भाषा और बोली में क्या अंतर है? कोई पाँच अंतर लिखिए।
- (ग) हिन्दी वर्णमाला में कुल कितने वर्ण होते हैं? सभी को A4 Size Sheet पर सुन्दर बनापट के साथ लिखें।
- (घ) शब्दों को कितने आधार पर वर्गीकृत किया गया है? उदाहरण सहित अपनी अभ्यास पुस्तिका में लिखें।
- (ङ) निम्नलिखित तत्सम शब्दों से तद्भव शब्द बनाओ :-

(क) दधि -

(ए) रात्रि

(ख) कण -

(झ) हस्ती

(ग) कृष्क -

(ञ) क्षीर

(घ) अक्षय -

(ट) दौटक

(ङ) रूप -

(ड) अग्नि

(च) पुनरुक्त शब्दों का प्रयोग करके पाँच बनाओ :-

(क) हाथ - हाथ

(ङ) बड़े - बड़े

(ख) अच्छे - अच्छे

(च) चलते - चलते

(ग) गाँव - गाँव

(झ) करते - करते

(घ) नगर - नगर

(ड) खड़े - खड़े

नोट :- उपर्युक्त कार्य को हिन्दी 0यमसरा पुस्तिका में करें।



कक्षा:- 8.

संस्कृत

व्रीहिकलीन अवकाश वृत्तार्थः

= संस्कृत सुरभी- प्रथमः पाठः → प्रार्थना:- के श्लोक कंठस्थ  
याद करो। (हिन्दी अर्थ सहित)

द्वितीयः पाठः → अनुशासनस्य महत्वम् → अनुशासन के महत्व के  
विषय में संस्कृत भाषा में एक अनुच्छेद लिखो।

(A3 Size Sheet)

तृतीयः पाठः → व्यायामः → पाठ पढ़ें और व्यायाम के महत्व  
के विषय में दस पंक्तियाँ अपनी संस्कृत कार्य-  
पुस्तिका में लिखें।

चतुर्थः पाठः → शराः जिज्ञासा → पाठ में से कठिन शब्दों को  
चुनकर उनके अर्थ लिखें व याद करें।

व्याकरण:- सेव धातु (आत्मनेपद) - लट्, लृट्, लोट् और लङ्।  
लकार लिखें व याद करें।

M.D.SR.SEC.SCHOOL, MANKROLA

HOLIDAY HOMEWORK(2020-21)

CLASS -8<sup>th</sup>

*Note. We are attaching a few interesting activities and assignments which you are expected to do during the break. This will also help you keep occupied while you are in lockdown. Write neatly and present your work well .Have lots of fun and indoors and take good care of yourself. All project work have done A4 sheet.*

G.K-

1. Collect some picture of some historical sites of India. Name the cities in which they are located and paste them in A4 sheet.
- 2 Make a list of award / honours match them with the fields associated with them in A4 sheet.
- 3.Complete page-16 to 37 and try learn page 10,13,18,27,29.

**MD SR SEC SCHOOL , MANKROL**

**CLASS-8th**

**SUBJECT - science**

<b>SUMMER VACATION HOME WORK</b>
----------------------------------

- **Good Morning Students .**
- **As you know that summer vacation have been started from today .**
- **So keep studies very well and stay safe and healthy at home**
- **I am sending worksheet of those chapters which I have done already in your live classes.**

**Your work should be in practice note book.**

## CHAPTER -1 CROP PRODUCTION AND MANAGEMENT

1. Beera, wants to practice crop rotation in his field. Suggest a Rabi crop and a Kharif crop which will replenish his field with nitrogen. Which crop replenishes nitrogen and why?
2. Match the agricultural implements given in Column A with their use given in Column B.

### Column A

- (i) Sickle
- (ii) Hoe
- (iii) Seed Drill
- (iv) Sprinkler

### Column B

- (a) Ploughing
- (b) Sowing
- (c) Harvesting
- (d) Irrigation

(i)\_\_\_; (ii)\_\_\_; (iii)\_\_\_; (iv)\_\_\_

3. What are organic foods?
4. From the word puzzle given as Fig. 1.1 find atleast eight words which are 'farmer's friends.' Classify them into living and non living.

B	S	E	I	L	O	R	U	A	Z	Z
O	E	A	R	T	H	W	O	R	M	K
E	E	Z	L	G	O	H	Y	H	I	U
X	D	N	U	R	E	A	S	I	C	S
D	M	O	X	P	T	K	Y	Z	R	B
C	L	R	B	U	L	L	F	O	O	X
P	W	K	V	R	A	O	E	B	B	C
I	Q	P	G	B	G	C	W	I	E	M
M	A	N	U	R	E	V	J	U	S	P
Q	X	F	U	S	A	Z	T	M	U	V

Fig. 1.1

5. (a) Name the tool used with a tractor for sowing seeds in a field.  
(b) What are the advantages of using this tool?
6. (a) Name the practice followed for large scale rearing of farm animals.  
(b) What facilities are provided to farm animals?
7. Classify the following crops into Khariff and Rabi crops and write in the tabular column given below:

**Maize, paddy, mustard, pea, gram, wheat, groundnut, cotton.**

<b><i>Khariff</i></b>	<b><i>Rabi</i></b>
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

## Long Answer Type Questions

1. Despite favourable climatic conditions, a farmer's crop failed to give good yield. Give the possible reasons for this.
2. As a part of eco-club activity students were asked to raise a kitchen garden in the school premises. They were provided with some materials given in the box. List the other materials you would require.

How will you plan the garden? Write the steps.

**khurpi, water-can, spade, shovel**

**Note:** You have been asked to use only environment friendly materials.

3. Paddy is a major cereal crop in our country.
  - (a) In which season is paddy cultivated?
  - (b) Discuss the method of sowing.
  - (c) What measures must be taken to prevent spoilage and insect attack of harvested



## CHAPTER – 2 MICROORGANISMS : FRIEND AND FOE

1. Match the microorganisms given in the Column A to the group to which they belong in Column B.

Column A	Column B
(a) <i>Lactobacillus</i>	(i) Algae
(b) <i>Aspergillus</i>	(ii) Protozoa
(c) <i>Spirogyra</i>	(iii) Fungi
(d) <i>Paramecium</i>	(iv) Bacteria

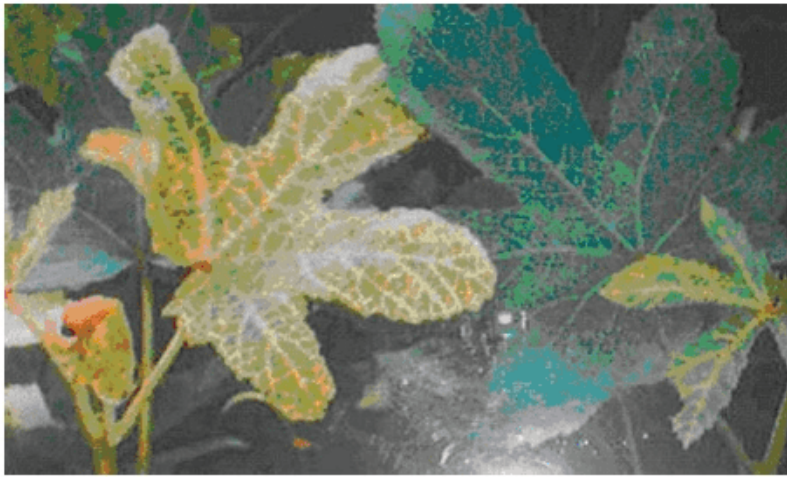
2. Classify the following into friendly and harmful microorganisms. Yeast, malarial parasite, *Lactobacillus*, bread mould, *Rhizobium*, *Bacillus anthracis*

Friendly	Harmful
_____	_____
_____	_____
_____	_____
_____	_____

3. While returning from the school, Boojho ate chaat from a street hawker. When he reached home, he felt ill and complained of stomach ache and fell ill. What could be the reason?
4. What will happen to 'pooris' and 'unused kneaded flour' if they are left in the open for a day or two?
5. (a) Name two diseases that are caused by virus.  
(b) Write one important characteristic of virus.

### Long Answer Type Questions

1. Observe the Fig.2.1 and answer the questions that follows.



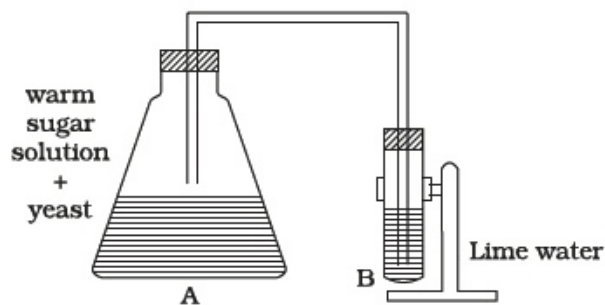
**Fig. 2.1**

- (a) Write the name of the disease.
- (b) Name the causative agent of this disease?
- (c) How does the disease spread from one plant to another?
- (d) Name any two plant diseases and the microbes that cause them.

2. How do vaccines work?

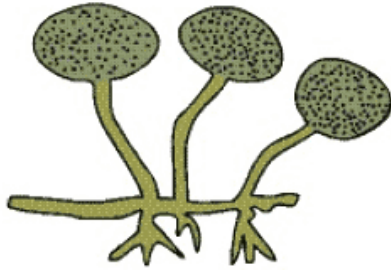
3. Observe the set up given in Fig. 2.2 and answer the following questions.

- (a) What happens to the sugar solution in A?
- (b) Which gas is released in A?
- (c) What changes will you observe in B when the released gas passes through it?



**Fig. 2.2**

4. Observe the Fig.2.3 and answer the following question



**Fig. 2.3**

- (a) Name the microorganism and the group to which it belongs.
  - (b) Name the food item on which the organism grows.
  - (c) Does it grow well in dry or in moist conditions?
  - (d) Is it safe to eat infected bread?
5. Give reasons for the following.
- (a) Fresh milk is boiled before consumption while processed milk stored in packets can be consumed without boiling.
  - (b) Raw vegetables and fruits are kept in refrigerators whereas jams and pickles can be kept outside.
  - (c) Farmers prefer to grow beans and peas in nitrogen deficient soils.
  - (d) Mosquitoes can be controlled by preventing stagnation of water though they do not live in water. Why?
6. How can we prevent the following diseases?
- (a) Cholera

- (b) Typhoid
- (c) Hepatitis A

7. Complete the following cycle given as Fig. 2.4 by filling the blanks (a), (b), (c) (d)

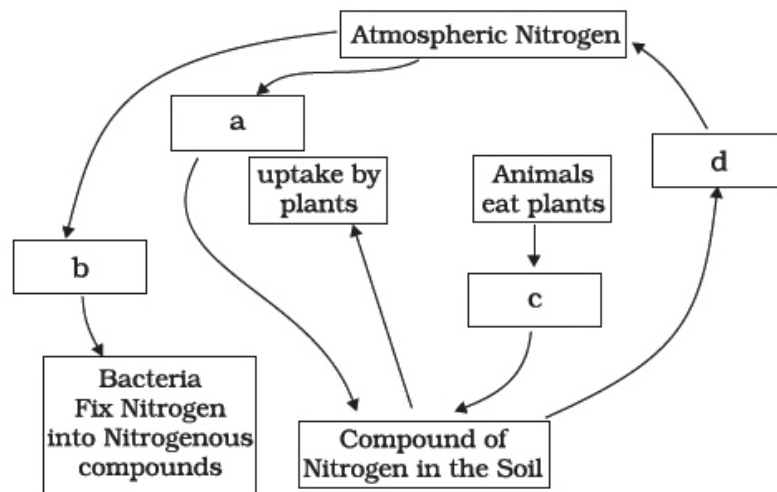


Fig. 2.4

## CHAPTER – 3 SYNTHETIC FIBERS AND PLASTICS

1. Cotton is a natural polymer. What is its chemical name?
2. A synthetic fiber which looks like silk is obtained by chemical treatment of wood pulp. It is, therefore, known as artificial silk.  
What is its common name?
3. Terrycot is made by mixing two types of fibres. Write the names of the fibres.
4. Plastic articles are available in all possible shapes and sizes. Can you tell why?
5. Plastic is used for making a large variety of articles of daily use and these articles are very attractive. But it is advised to avoid the use of plastic as far as possible. Why?
6. Why is it not advisable to burn plastic and synthetic fabrics?
7. Select the articles from the following list which are biodegradable.
  - (a) paper
  - (b) woolen clothes
  - (c) wood
  - (d) aluminium can
  - (e) plastic bag
  - (f) peels of vegetables
8. A bucket made of plastic does not rust like a bucket made of iron. Why?



## Short Answer Type Questions

1. Rohit took with him some nylon ropes, when he was going for rock climbing. Can you tell why he selected nylon ropes instead of ropes made of cotton or jute?
2. A lady went to the market to buy a blanket. The shopkeeper showed her blankets made of acrylic fibres as well as made of wool. She preferred to buy an acrylic blanket. Can you guess why?
3. PVC (polyvinyl chloride) is a thermoplastic and is used for making toys, chappals, etc. Bakelite is a thermosetting plastic and is used for making electrical switches, handles of various utensils, etc. Can you write the major difference between these two types of plastics?
4. Fill in the blanks.
  - (i) A polymer is a chain of many small units joined together which are called \_\_\_\_\_.
  - (ii) The synthetic fibres are also known as \_\_\_\_\_ fibres.
  - (iii) The first fully synthetic fibre was \_\_\_\_\_.
  - (iv) A fibre similar to wool is \_\_\_\_\_.
  - (v) A plastic used for making crockery is \_\_\_\_\_.
5. Match items in List A with the items of list B.

### List A

- (a) nylon
- (b) PET
- (c) rayon
- (d) thermosetting plastics
- (e) teflon

### List B

- (i) non-stick coating
- (ii) electric switches
- (iii) parachutes
- (iv) polyester
- (v) artificial silk

6. Unscramble the jumbled words given below, related to synthetic materials.
  - (a) anory
  - (b) lopmery
  - (c) relyteen
  - (d) laspict
  - (e) yespolter
  - (f) felton

### Long Answer Type Questions

1. Indicate whether the following statements are True or False. Also write the false statements in their correct form.
  - (i) The fabric terywool is obtained by mixing terylene and wool.
  - (ii) Synthetic fibres do not melt on heating.
  - (iii) It is risky to wear synthetic clothes while working in the kitchen.
  - (iv) Most of the plastics are biodegradable.
2. Write the importance of synthetic polymers in our life.
3. Despite being very useful it is advised to restrict the use of plastic. Why is it so? Can you suggest some methods to limit its consumption?
4. Write an activity to show that synthetic fibres are stronger than the cotton fibres.
5. Complete the crossword given below with the help of clues.



## CHAPTER – 4 MATERIALS : METALS AND NON METALS

1. Name two soft metals which can be cut with a knife.
2. Which non-metal is essential for our life and all living beings inhale it during breathing?
3. Name two major non-metals which are present in fertilisers and enhance the growth of plants.
4. Which non-metal is used to disinfect water?
5. A purple coloured non-metal forms a brown solution in alcohol which is applied on wounds as an antiseptic. Name the non- metal.
6. Zinc sulphate forms a colourless solution in water. Will you observe any colour on adding copper turning in it?
7. Why are bells made of metals?
8. Which liquid metal is used for making thermometers?
9. Which of the following metals can displace the other two metals from their salt solutions?  
zinc, iron, copper

### Short Answer Type Questions

1. Paheli bought a statue made of copper. To her surprise it acquired a dull green coating after a couple of months. Explain the reason.
2. In Fig 4.1 you find that the bulb glows when an iron nail is placed between two ends of wire. Complete the following sentences on the bases of this fact.



Fig 4.1

- (a) \_\_\_\_\_ is a metal.
  - (b) Metals are good \_\_\_\_\_ of electricity.
3. If in Fig. 4.1 iron nail is replaced by a wooden stick, will the bulb glow or not? Justify your answer.
  4. Paheli prepared a blue coloured solution of copper sulphate in beaker A and placed an iron nail in it. Boojho prepared a yellowish green solution of ferrous sulphate in beaker B and placed a copper wire in it. What changes will they observe in the two beakers after an hour?
  5. A doctor prescribed a tablet to a patient suffering from iron deficiency. The tablet does not look like iron. Explain.
  6. Match the substances in Column A with their applications given in Column B.

Column A (Substance)	Column B (Application)
(a) oxygen	(i) for making crackers
(b) copper	(ii) for disinfecting water
(c) sulphur	(iii) all living beings inhale during breathing
(d) iron	(iv) for making electric wires
(e) chlorine	(v) for making rails

## Long Answer Type Questions

- Some of the following statements are incorrect. Find the incorrect statements and correct them.
  - (a) The property of metals by virtue of which they can be drawn into wires is called ductility.
  - (b) Metals are good conductor of electricity but poor conductor of heat.
  - (c) Articles made of metals produce ringing sound when struck hard.
  - (d) Oxides of non-metals and metals are acidic in nature.
  - (e) A less reactive metal replaces a more reactive metal from its salt solution in water.
- Iron is more reactive than copper. Can you write an activity to show this?
- Fill in the blanks to complete the following paragraph.  
 The name of the product formed in the reaction of sulphur and \_\_\_\_\_ is sulphur dioxide gas. When sulphur dioxide is dissolved in \_\_\_\_\_, sulphurous acid is formed. The sulphurous acid turns \_\_\_\_\_ litmus paper to \_\_\_\_\_.  
 Generally oxides of \_\_\_\_\_ are acidic in nature. After completing the paragraph write two questions which you can raise on the basis of this information.
- Find out the names of three metals and three non-metals from the box given as Fig 4.2.



A	X	T	M	S	P	K	L	G
X	T	S	U	L	P	H	U	R
I	L	R	H	M	N	D	I	L
C	I	R	O	N	S	E	J	K
A	L	U	M	I	N	I	U	M
R	M	U	Q	T	R	S	T	U
B	N	P	C	O	P	P	E	R
O	X	Y	G	E	N	V	W	X
N	Y	Z	T	A	B	G	H	K

Fig 4.2

5. Complete the crossword given in Fig. 4.3 with the help of the clues.

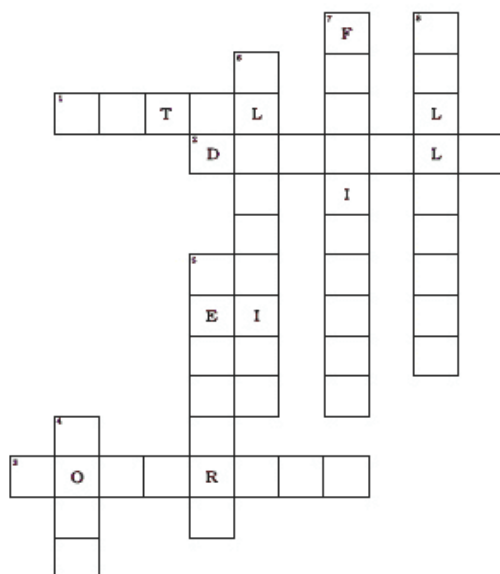


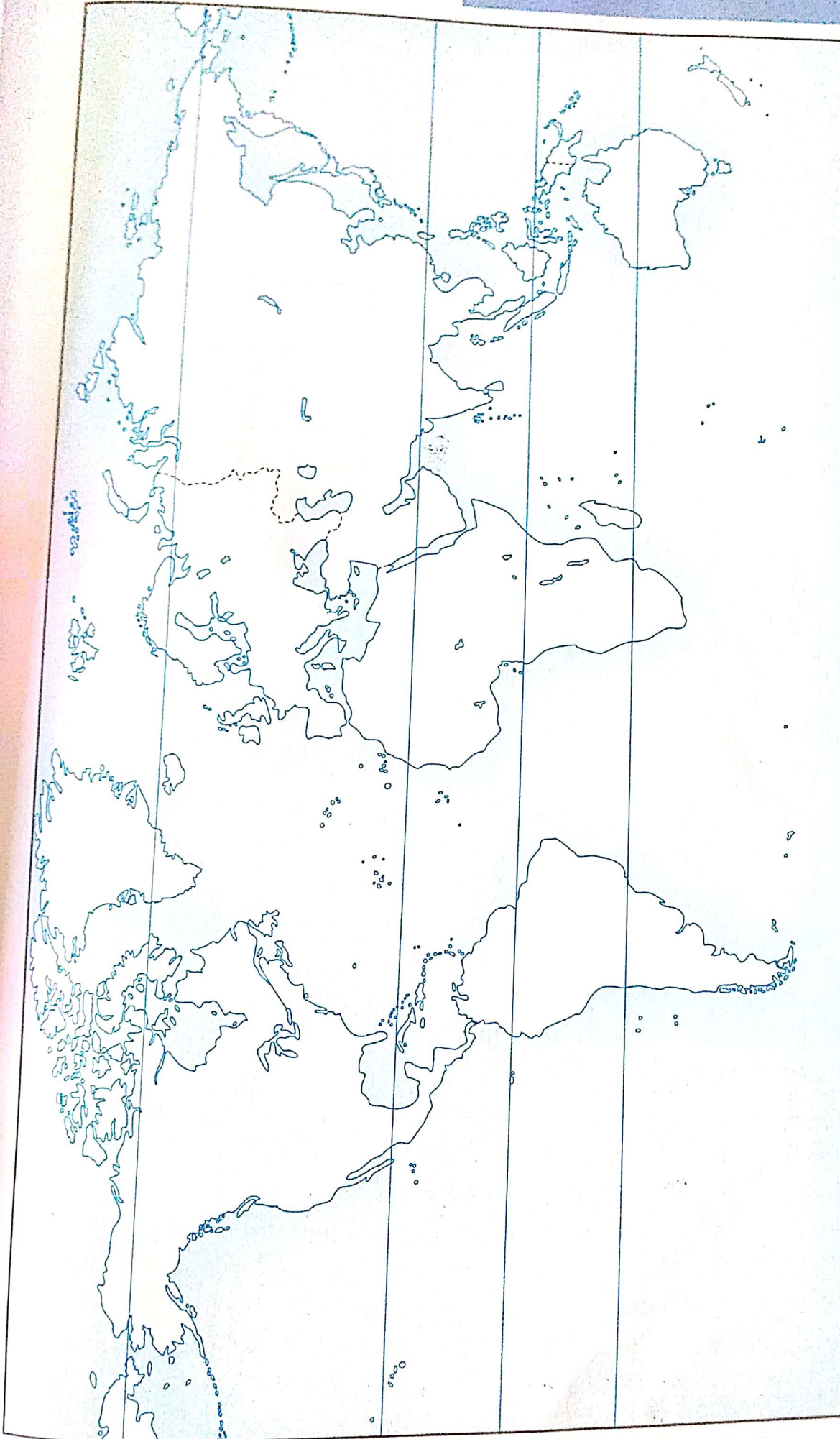
Fig 4.3

#### Across

- 1. Which is generally hard, ductile, malleable and sonorous.
- 2. A metal is called so it can be drawn into wires.
- 3. Metal bells are used because of this property.

#### Down

- 4. A metal generally used for making jewellery.
- 5. A metal which is liquid at room temperature.
- 6. A metal which reacts with acid as well as base to form hydrogen gas.
- 7. Substances used to enhance the growth of plants.
- 8. Property by virtue of which metals can be beaten into thin sheets.



### Activity Time

**Answer the following question :**

On the outline map of the world, mark where iron ore, copper and bauxite are found.

M. D. SR. SEC. SCHOOL, MANKROLA (GURUGRAM)

CLASS- 8<sup>th</sup> HOLIDAY HOMEWORK ( 2020-21)

SUBJECT:-COMPUTER

NOTE:- 1. Do all the homework according to the given instructions.

2. It should be done in a neat handwriting.

- ❖ Write the Chapter 1 and Chapter 2 Exercise Time, Objective Zone, Written Zone and Questions / Answer in your computer Book and Notebook.
- ❖ Make your chapter wise Flow Chart.
- ❖ Written text should be supported with handmade Image Or Flow Chart.
- ❖ Work should be appropriate & neat.

Activity:- Topic (MS Power Point)

Collect the Information from Books, Internet and other sources about different presentation Software. Then write their names and functioning in your computer file.



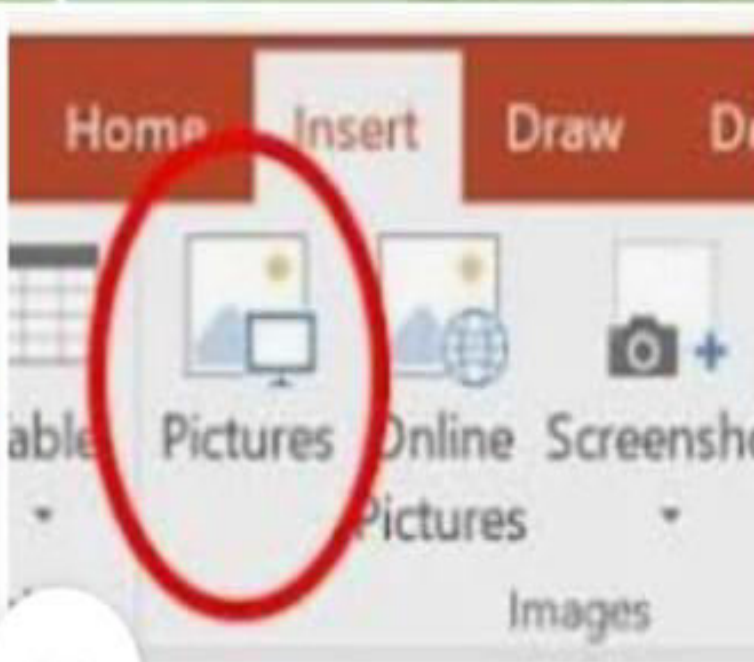
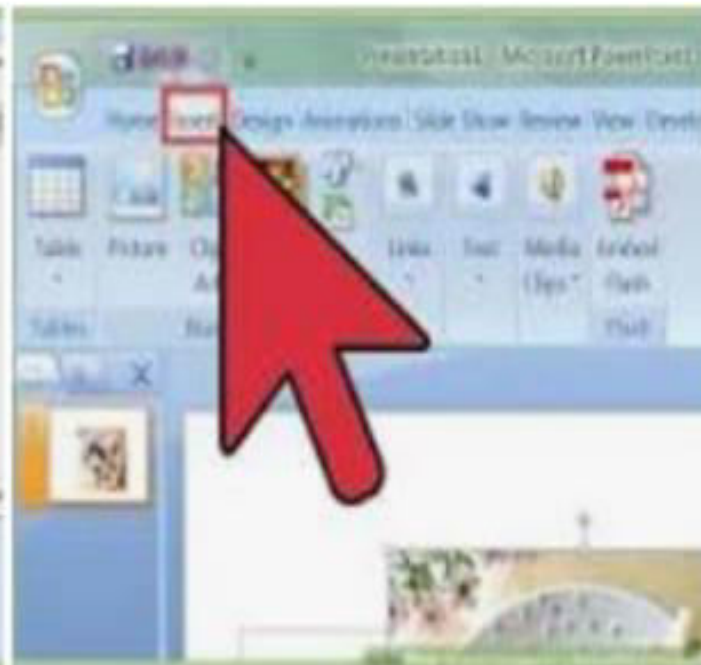
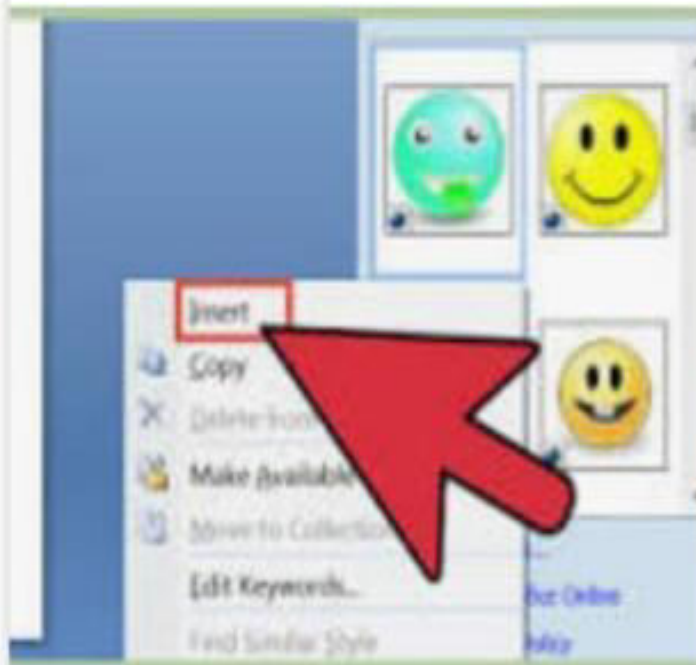
background



sample



templates





M.D.SR.SEC.SCHOOL, MANKROLA

HOLIDAY HOMEWORK(2020-21)

CLASS-VIII

Dear students,

We all stand at the threshold of an extraordinary summer- the summer of 2020 ! This time demands of you to put together your individual and collective energies, talents and resources to ensure the building up of functional academic as well as yours creative, analytical and organisations skills.

*We are attaching a few interesting activities and assignments which you are expected to do during the break. This will also help you keep occupied while you are in lockdown. Write neatly and present your work well .Have lots of fun and indoors and take good care of yourself.*

*Some Point to remember during summer vacations:*

- 1. Reading is a must . Reading nurture's your soul. Read on Kindle, read online, listen to audio books.*
- 2. If you are bored , help out at home. This will also earn brownie points with your parents and help you realise the importance of organisation and cleanliness especially in the current situation.*
- 3. Find other ways of entertaining yourself than phones and TV, learning musical instruments like guitar, keyboard learn a hobby like origami or magic tricks, read novels ,learn cooking etc. All these can be done online for free.*

## **SOCIAL STUDIES**

### **HISTORY**

Note: All project work have done in A4 Sheet

1. Create a chart of the different national movements across the world in the modern period try to find some common features among them.

2. Collect some information about the British East India company and make an assignment on it find out its work objectives ,progress and decline.

3.Prepare a project file on Tipu Sultan.

A. Read chapter 3 'The Revolt of 1857-58' and Answer these questions in your notebook:

Que.1 What were the reasons of failure of revolt of 1857? Elaborate any two of them .

Que.2 What were the results of the Revolt of 1857 ?

Que.3 What were the main causes of revolt of 1857?

Que.4 Name any four eminent leaders of the revolt of 1857. Write a few lines to describe the achievements of each of them

Que. 5 In what sense can the Revolt be called India's first war of independence? Give reason in support of your answer.

Que.6.The revolt did not spread to all parts of the country. Give reason in support of your answer.

## GEOGRAPHY

1. Write a slogan for conservation of resources and draw a picture to related themes.
2. How can you save electricity, water in daily life? Give some steps
3. Complete page 5,7,9,11,13,15,16,17,19,20 with the help of Map matrix.

## CIVICS

*Things to do- page number 129*

- 1 Name any five present cabinet ministers.*
- 2. Make a project file on the present president of India .*
- 3. List any five major decisions taken by the present prime minister of India.*

*Note: We attached some pictures which help you to complete your above H.W . You have to learn all work which completed till now for your online test .If you have any query along your H.W You can ask 9:00 A.M to 12 :00.NOON.*

M.D. SENIOR SECONDRY SCHOOL-MANKROLA-GURUGRAM	
HOLIDAY HOME WORK-JUNE2020	
CLASS-VIII	
SUBJECT-ENGLISH	
SUBJECT-TEACHER-RISHI DUTT SHARMA	
INSTRUCTIONS-	
ALL THE GIVEN HOMEWORK HAVE TO DO IN A SEPARATE HOMEWORK COPY YOU HAVE TO DO ALL THE WORK WITH A BEAUTIFULL HAND AND CLEARLY.	
DATED	DESCRIPTION OF THE GIVEN HOMEWORK
13-06-20	LEARN THE FIRST POEM-NATURE AND MAN WHOLE HEARTEDLY.
14-06-20	LEARN THE QUESTION ANSWE OF THE POEM NATURE AND MAN.
15-06-20	WRITE THE DEFINITION OF A SENTENCE, SUBJECT, AND PREDICATE
16-06-20	WRITE 20 SIMPLE SENTENCE AND SEPARATE THE SUBJECT AND PREDICATE
17-06-20	READ ABOUT THE DIRECT OBJECT AND INDIRECT OBJECT
18-06-20	WRITE THE DEFINITION OF A VERB- ITS FORMS NAMES AND 50 VERBS WITH EACH FORM
17-06-20	READ THE STORY OF THE LOST WIT- WRITE THE SUMMARY IN YOUR OWN WORDS. LIMIT 50 TO 60 WORDS
18-06-20	LEARN AND WRITE ALL THE QUE/ANS OF CHAPTER-THE LOST WIT
19-06-20	DO THE FIRST SAMPLE PAPER IN YOUR COPY
20-06-20	LEARN THE POEM "LEISURE" AND ITS ALL QUE/ANS
21-06-20	WRITE ABOUT THE GERUND AND INFINITIVE –CHAPTER- FIRST GRAMMAR BOOK- WRITE SOME EXAMPLES ALSO.
22-06-20	WRITE THE DEFINITION OF PHRASE AND CLAUSE
23-06-20	WRITE ABOUT THE NOUN , ADJECTIVE , ADVERB PHRASE AND WRITE DEFINITIONS WITH EXAMPLES
24-06-20	LEARN THE DIFFERENCE BETWEEN PHRASE AND A CLAUSE-CHAPTER-2
25-06-20	READ THE CHAPTER- SAVE FORESTS, SAVE EARTH- AND ALSO ITS ALL QUESTIONS ANSWERS
26-25-20	WRITE THE DIFFICULT WORD OF EACH CHAPTERS
27-06-20	READ THE CHAPTER- BEES IN MY BACKYARD
28-06-20	WRITE THE KINDS OF SUBORDINATE CLAUSE. ALSO WRITE THEIR DEFINITIONS WITH EXAMPLES
29-06-20	WRITE THE TYPES OF ADVERB CLAUSE- UNDERSTAND THEIR FUNCTIONS WITH GIVEN EXAMPLES OF EACH.
30-06-20	MAKE 10 SIMPLE SENTENCES, 10 NEGATIVE SENTENCES, AND 10 INTERROGATIVE SENTENCES.



# HOLIDAYS ASSIGNMENT OF 8<sup>th</sup> CLASS MATHS

## CHAPTER - 1 (RATIONAL NUMBERS )

Do the following in your fair notebook .

### WORK SHEET -1

1. Pick out the correct rational numbers. From given numbers.

$$\frac{3}{7}, \sqrt{2}, \frac{\pi}{2}, \frac{10}{15}, 180, \frac{9}{13}, \frac{\sqrt{2}}{\sqrt{3}}$$

2. Solve the following:

$$(a) \frac{5}{7} + \left( \frac{-3}{7} \right) \quad (b) \frac{5}{9} \times \frac{3}{10} \quad (c) \frac{2}{3} \times \frac{5}{6} \div \frac{8}{3} \quad (d) \text{reciprocal of } \frac{1}{9}$$

### WORK SHEET -2

1. Express  $\frac{-3}{7}$  as a rational number with denominator.

$$(a) -21$$

$$(b) -28$$

2. Express  $\frac{42}{52}$  as a rational number with numerator equal to 21.

3. If  $x = \frac{14}{49}$ , which of the following will be true.

$$(a) x > 0$$

$$(b) x = 0$$

$$(c) x = 0$$

4. (a)  $x = \frac{-2}{6}$  and  $y = \frac{-11}{6}$ , then which of the following condition is satisfy?

$$(i) (x - y) > 0 \quad (ii) (x - y) < 0 \quad (iii) x - y = 0 \quad (iv) (x - y) \geq 0$$

- (b)  $x = \frac{3}{6}$  and  $y = \frac{4}{8}$  then which one of the following is true?

$$(i) x > y$$

$$(ii) x = y$$

$$(iii) x < y$$

5. If  $x = \frac{6}{10}$ ,  $y = \frac{-4}{10}$ ,  $z = \frac{8}{10}$ , which one of the following is true?

$$(a) x > y$$

$$(b) y > z$$

$$(c) z < x$$

### WORK SHEET -3

1. Subtract and name the property :

$$(a) \frac{9}{7} - \frac{4}{7}$$

$$(b) \frac{180}{350} - \frac{150}{280}$$

2. Fill in the blank :

$$(a) \frac{7}{9} - 0 = \underline{\hspace{2cm}}. \quad (b) \frac{-6}{7} - 0 = \underline{\hspace{2cm}}. \quad (c) \frac{-3}{5} - 0 = \underline{\hspace{2cm}}.$$

### WORK SHEET -4

1. Fill in the blanks :

$$(a) \text{The sum of two rational numbers is always a } \underline{\hspace{2cm}}$$

$$(b) \frac{1}{9} + \frac{(-6)}{5} = \underline{\hspace{2cm}} + \frac{1}{9}.$$

$$(c) \frac{1}{4} + \frac{1}{3} + \frac{1}{2} = \frac{1}{3} + \underline{\hspace{2cm}} + \frac{1}{4}.$$

$$(d) \frac{p}{q} + 0 = 0 + \underline{\hspace{2cm}}.$$

$$(e) \frac{3}{4} + \underline{\hspace{2cm}} = 0.$$

### WORK SHEET -5

1. The product of  $\frac{7}{4} \times \frac{3}{5} =$  \_\_\_\_\_.
2. Fill in the blank  $\frac{6}{7} \times \frac{5}{9} = \frac{5}{9} \times$  \_\_\_\_\_.
3. Solve by associative property and show that answer is same  $\frac{2}{9} \times \frac{1}{-2} \times \frac{6}{5}$ .
4. (a)  $\frac{7}{9} \times 1 =$  \_\_\_\_\_ . (b)  $1 \times \frac{6}{13} =$  \_\_\_\_\_ . (c)  $\frac{15}{17} \times$  \_\_\_\_\_  $= \frac{15}{17}$
5. Find  $\frac{9}{4} \times \left( \frac{3}{6} + \frac{-9}{15} \right)$

### WORK-6

1. Divided  $\frac{3}{8}$  and  $\frac{-6}{7}$
2. True/False
  - (a) When a rational number is divided by another rational number (except zero) then the quotient is not a rational number.
  - (b) Division of any rational number by itself gives the quotient 0.
  - (c) When a rational number is divided by 1, the quotient is the rational number itself.
  - (d)  $0 \div \frac{7}{5} = 0$ .

### CHAPTER - 3 (SQUARES, SQUARE ROOTS, CUBE, CUBE ROOTS )

Do the following in your fair notebook .

#### WORK-1

1. Write the square of following numbers.
  - (a) 15
  - (b) 17
  - (c) 21
2. Check whether the given numbers are perfect square or not.
  - (a) 121
  - (b) 65

#### WORK-2

1. True / False
    - (a) Squares of even numbers are not an even number.
    - (b) Squares of odd numbers are always odd.
    - (c) A number ending with 2, 3, 7 or 8 is a perfect square.
  2. Pick out the number having square of 46 is equal
    - (a) 1253
    - (b) 2116
    - (c) 3143
    - (d) 6235
  3. Pick out the number having square of 95
    - (a) 4632
    - (b) 1352
    - (c) 9025
    - (d) 3636
- 
1. Find squares by column method.
    - (a) 48
    - (b) 28
    - (c) 36
    - (d) 30

#### WORK-3

1. Find the square of following using diagonal square method :
  - (a) 32
  - (b) 45
  - (c) 60

#### WORK-4

1. Find the square root of

- (a) 2500
- (b) 6400
- (c) 676

2. Find the square root by long division method.

- (a) 532.525
- (b) 161604

#### **WORK-5**

1. Write the cube of following numbers.

- (a) 9
- (b) 13
- (c) 18
- (d) 45

2. Which of the following are cubes of even numbers 3375, 1000, 729, 512, 3305, 64, 36.

3. Which of the following are cubes of odd numbers 13824, 1296, 343, 1728, 216, 729.

#### **WORK-6**

1. Write the cube of numbers calculate by column method

- (a) 34
- (b) 86
- (c) 52

#### **WORK-6**

1. Find the cube root of the following numbers.

- (a) 27000
- (b) 64000

2. Check the number for perfect cube or not

- (a) 1512
- (b) 1728

#### **CHAPTER - (PLAYING WITH NUMBERS )**

Do the following in your fair notebook .

#### WORK-1

1. Which of the following number is divisible by 2.

- (a) 3021
- (b) 4306
- (c) 2321
- (d) 13577

2. Which of the following number is not divisible by 5.

- (a) 2030
- (b) 2085
- (c) 3532
- (d) 6705

3. The number is divisible by 2135679

- (a) 2
- (b) 5
- (c) 3
- (d) 9

4. Pick out the option which is not divisible by 10

- (a) 53200
- (b) 32153
- (c) 13570
- (d) 10000

5. Which of the following number is divisible by 9.

- (a) 1098768
- (b) 409718
- (c) 510229
- (d) 972900