

KV NHPC GERUKAMUKH

AUTMNBREAK

21/10/2020-30/10/2020

HOMEWORK

CLASS-X

MATHEMATICS

1. Based on the CHAPTER-13 (Surface area and volume) find out the volume of any FIVE THINGS present in your surrounding. Write their measurement and find their volume with proper method.

For example:- Find Volume of your maths book. Find volume of your football etc.

2. Based on CHAPTER-13 find the volume of any three combined figures present in your surrounding.

3. Draw a line segment AB of length 8 cm. Taking A as centre, draw a circle of radius 4 cm and taking B as centre, draw another circle of radius 3 cm. Construct tangents to each circle from the centre of the other circle. (Exercise-11.2)

4. Based on CHAPTER-9 find out the height of any three things present in your surrounding. Write the way you use to find out the height of that object.

For example:- Find the height of A TREE PRESENT NEAR YOU.

5. In what ratio does the point $(-4, 6)$ divide the line segment joining the points $A(-6, 10)$ and $B(3, -8)$?

6. Show that the points $(1, 7)$, $(4, 2)$, $(-1, -1)$ and $(-4, 4)$ are the vertices of a square.

7. CCT QUESTION-

An agency supplies bread and jams to three places - a hospital, a bank and a school. Bread comes in a bunch of 8 pieces and Jam comes in a pack of 6 pieces. On a particular day, agency has supplied x packets of bread and y packets of jam to the school. On the same day, agency has supplied $3x$ packets of bread along with sufficient packets of jam to hospital. It is known that the number of



students in the school are between 500 and 550.

1. How many students are there in school?
2. How many packets of bread are distributed in the school?
3. How many packets of jams are distributed in the school?
4. How many packets of bread are distributed in the hospital?
5. How many packets of jams are distributed in the hospital?

Class - X Science Autumn Break Homework

Instructions:

- Draw well labelled diagrams, wherever needed and use pencil.
- Size of the diagrams should be appropriate (one diagram on single page).
- Do neatly and cleanly.

Q.1 Identify the type of chemical reaction in the following statement and define each of them also write down balanced chemical equation for each reaction:

- a. Digestion of food in our body.
- b. Rusting of iron.
- c. Heating of manganese dioxide with aluminium powder.
- d. Blue colour of copper sulphate solution disappears when iron filings are added to it
- e. Dilute hydrochloric acid is added to sodium hydroxide solution to form sodium chloride and water.

Q.2 State the reason for the following statements:

- a. Tap water conducts electricity whereas distilled water does not.
- b. Dry hydrogen chloride gas does not turn blue litmus red whereas dilute hydrochloric acid does.
- c. During summer season, a milkman usually adds a very small amount of baking soda to fresh milk.
- d. For dilution of an acid, acid is added to water and not water to acid.
- e. Ammonia is a base but it does not contain hydroxyl group.

Q.3 Draw neat and labelled diagram of nephron and describe the process of urine formation.

Q.4 Draw a diagram of the longitudinal section of a flower and

- a. Label on it sepals, petal, ovary and stigma.
- b. Write the names of male and female parts of a flower.

Q.5 a. A concave mirror produces three times enlarged image of an object placed at 10 cm in front of it. Calculate the focal length of the mirror.

b. Show the formation of the image with the help of a ray diagram when object is placed 6 cm away from the pole of a convex mirror.

Q.6 a. State Fleming's left hand rule.

b. Write the principle of working of an electric motor.

c. Explain the function of the following parts of an electric motor.

(i) Armature (ii) Brushes (iii) Split ring

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AUTMN BREAK

21/10/2020-30/10/2020

HOMEWORK

CLASS-X

SOCIAL SCIENCE

1. Find out why an Indian farmer does not want his son to become a farmer.
2. Give some suggestions for the alleviation of poverty in India.
3. Prepare a chart showing the level of government in India.

Kendriya Vidyalaya NHPC, Gerukamukh
Holiday Homework ((Autumn Break)
October 2020

Class: X
Sub- English

Objectives:

- A. enhancing writing and thinking skills among the students
- B. inculcating observing capacity among the students.
- C. sensitizing them towards nature.
- D. developing imaginative power.

Questions:

- 1.** You must have observed that during the lockdown period, nature breathed happily and peacefully and felt less pollution in her life. In an autobiographical note, write the life story of nature before the lockdown and after the lockdown.
- 2.** In reference to the chapter 'Bholi', a girl like Bholi is in every society whose sound does not come out on to the surface because of many told and untold reasons. Write a story of one such Bholi in your own words.

Note:

- A. Answers must be written in the notebook.
- B. No words limit for the answers.
- C. All the questions are compulsory.
- D. You can also use pictures.