

WORK SHEET-10

SUBJECT – MATHEMATICS

CLASS – IX

CHAPTER – 03. COORDINATE GEOMETRY

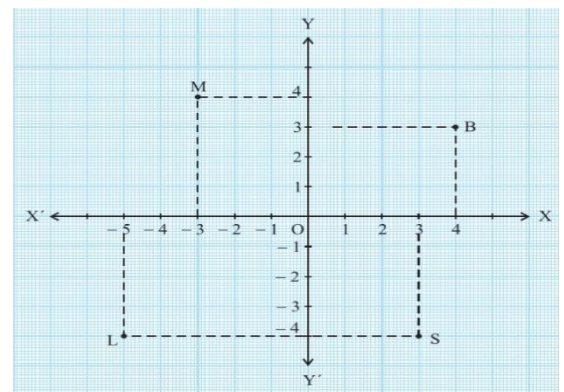
SESSION - (2020-21)

Instructions to be followed:

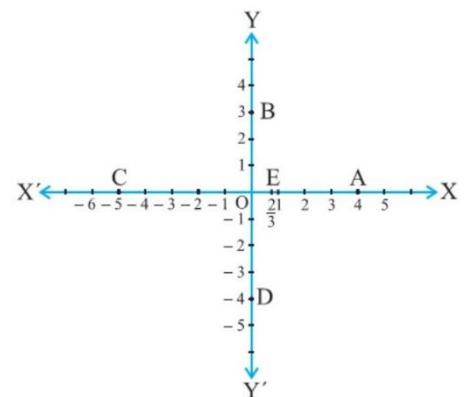
- 1:- Students do your worksheet in any notebook such as rough notebook, previous year notebook, rough sheets etc. whichever is available at your home. No need to go outside.
- 2:- All the student must complete their worksheets as Periodic test 1 marks will be given to those who completes it else you will have to go through pen paper test after the school reopens.
- 3:- See video links in every worksheet as it will help you to understand the topic.
- 4:- If you have any query related to worksheet, ask your queries in WhatsApp group between 10:00 am to 12:00 pm in the morning and 4:00 to 6:00 pm in the evening.
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1. See Fig. and complete the following statements:

- (i) The abscissa and the ordinate of the point B are ___ and ___, respectively. Hence, the coordinates of B are (__, __).
- (ii) The x-coordinate and the y-coordinate of the point M are ___ and ___, respectively. Hence, the coordinates of M are (__, __).
- (iii) The x-coordinate and the y-coordinate of the point L are ___ and ___, respectively. Hence, the coordinates of L are (__, __).
- (iv) The x-coordinate and the y-coordinate of the point S are ___ and ___, respectively. Hence, the coordinates of S are (__, __).



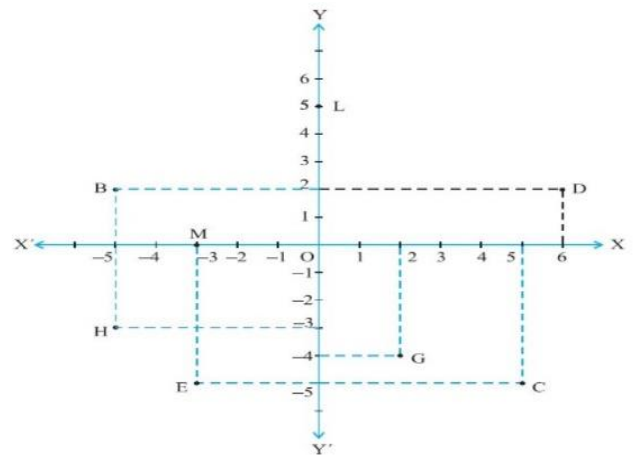
2. Write the coordinates of the points marked on the axes in given Figure.



3. Write the answer of each of the following questions:

- (i) What is the name of horizontal and the vertical lines drawn to determine the position of any point in the Cartesian plane?
- (ii) What is the name of each part of the plane formed by these two lines?
- (iii) Write the name of the point where these two lines intersect.

4. See given Figure and write the following:
- The coordinates of B.
 - The coordinates of C.
 - The point identified by the coordinates $(-3, -5)$.
 - The point identified by the coordinates $(2, -4)$.
 - The abscissa of the point D.
 - The ordinate of the point H.
 - The coordinates of the point L.
 - The coordinates of the point M.



5. Make a graph given in question 4 using threads and plot the given points using pulses. (**Activity**)

NOTE:

- For question 1 (please refer page no 57).
- For question 2 (please refer page no 59).
- For question 3 watch video in given link: <https://www.youtube.com/watch?v=b9vxEK-azGU>
- For question 4 watch video in given link: <https://www.youtube.com/watch?v=KolgSTWIBB8>

HARI VIDYA BHAWAN
SUBJECT- SOCIAL SCIENCE
CLASS – IX
SESSION – 2020 – 21
WORK SHEET -10

Date – 23-04-2020

General Instructions: -

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POL.SCIENCE (CH-1) WHAT IS DEMOCRACY? WHY DEMOCRACY?

NOTES: -

DEMOCRATIC GOVERNMENT

- Democracy is a best form of government as the rulers are accountable to the people and have to fulfil their needs.
- In democratic governments, people elect their rulers and have right in decision making.
- The Parliament is a separate body and has no interference of army.
- In a democratic country, any citizen can aspire to contest elections for any post irrespective of his or her caste, religion, socio- economic and educational backgrounds which means the right of vote is available to all citizens.
- Democracy is based on consultation, and in democratic government people enjoy their rights of their discussion.
- There are free and fair elections. Elections offer a choice and fair opportunity to the people to change the current rulers.
- There is a freedom of expression and people enjoy their fundamental rights.
- Example - India, the USA.

NON- DEMOCRATIC GOVERNMENT

- The rulers are not accountable to the people and their needs.
- In non-democratic governments, people do not elect their rulers and have no right in decision-making.
- The Parliament cannot pass a law about the army without the consent of the chief of army.
- The citizens of the country have not right to vote.
- Non-democratic government is based on dictatorship. The ruler does what he wishes.
- In non-democratic government elections are often not held if held they are not fair enough rather they are imposing.
- There is no freedom of expression and people do not enjoy their fundamental rights.
- Example – Saudi Arabia, Zimbabwe.

VERY SHORT QUESTIONS

Q1. Which of the following countries is not democratic?

- I. India
- II. China
- III. United States of America
- IV. Nepal

Q2. In which country women do not have the right to vote?

Q3. What does 'one person, one vote, one value' mean?

LONG QUESTION

Q4. Distinguish between the democratic government and non-democratic government.

NOTE:-

To understand the whole chapter watch the video via link:

<https://youtu.be/fmgAGK-VnRE>

HARI VIDYA BHAWAN Date-23/04/2020

WORK SHEET-11

SUBJECT- MATHEMATICS

CLASS- X

SESSION - (2020-21)

CHAPTER – 3 (Pair of Linear Equation in Two Variables)

Instructions to be followed :-

1:- Students do your worksheet in any notebook such as rough notebook, previous year notebook, rough sheets etc. whichever is available at your home. No need to go outside.

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1. Solve the following pair of linear equations by the cross multiplication methods:

(a.) $8x + 5y = 9$ (b.) $3x + 2y = 1$ (c.) $5x + 3y = 4$ (d.) $2x - 3y = -6$
 $2x - y = 2$ $5x + 3y = 2$ $4x - 6y = -12$ $3x + 2y = 4$

Form the pair of linear equations in the following problems and find their solutions (if they exist) by any algebraic method:

- A part of monthly hostel charges is fixed and the remaining depends on the number of days one has taken food in the mess. When a student A takes food for 20 days she has to pay ₹ 1000 as hostel charges whereas a student B, who takes food for 26 days, pays 1180 as hostel charges. Find the fixed charges and the cost of food per day.
- A fraction becomes $\frac{1}{3}$ when 1 is subtracted from the numerator and it becomes $\frac{1}{4}$ when 8 is added to its denominator. Find the fraction.
- Yash scored 40 marks in a test, getting 3 marks for each right answer and losing 1 mark for each wrong answer. Had 4 marks been awarded for each correct answer and 2 marks been deducted for each incorrect answer, then Yash would have scored 50 marks. How many questions were there in the test?

5. Places A and B are 100 km apart on a highway. One car starts from A and another from B at the same time. If the cars travel in the same direction at different speeds, they meet in 5 hours. If they travel towards each other, they meet in 1 hour. What are the speeds of the two cars?
6. The area of a rectangle gets reduced by 9 square units, if its length is reduced by 5 units and breadth is increased by 3 units. If we increase the length by 3 units and the breadth by 2 units, the area increases by 67 square units. Find the dimensions of the rectangle
7. For which values of a and b does the following pair of linear equations have an infinite number of solutions?

$$2x + 3y = 7$$

$$(a - b)x + (a + b)y = 3a + b - 2$$
8. For which value of k will the following pair of linear equations have no solution?

$$3x + y = 1$$

$$(2k - 1)x + (k - 1)y = 2k + 1$$

For any query

Question 1....

<https://youtu.be/FYxlaW5jpow>

Question 2 to 6....

<https://youtu.be/XNq-CLyEaeM>

<https://youtu.be/XqZZmPvetyc>

<https://youtu.be/q8IxOU2ELzE>

<https://youtu.be/mLAHegjRFpE>

Question 7 to 8...

<https://youtu.be/NxExdapLZ5o>

<https://youtu.be/vYMtmMd9MfY>

HARI VIDYA BHAWAN
SUBJECT- SOCIAL SCIENCE
CLASS – X
SESSION – 2020 – 21
WORK SHEET -11

Date – 23-04-2020

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ECONOMICS (CH-1) DEVELOPMENT

NOTES:-

HOW TO COMPARE DIFFERENT COUTRIES OR STATES?

- For comparing countries, their income is considered to be one of the most important attributes. countries with higher income are more developed than the countries with less income.
- Average income is the total income of the country divided by its total population. It is also called per capita income.
- The World Bank applies some principle to classify different countries. It considered only the per capita income as the indicator of the development. The UNDP considers health, educational levels and the per capita income of the country.
- The World Bank says that countries with the per capita income of Rs4,53,000 per annum and above in 2004 are called rich countries and those with the per capita income of Rs 37,000 or less are called low-income countries.
- India comes in the category of low – income countries because its per capita income in 2004 was just Rs 28,000 per annum.
- Rich countries excluding the countries of Middle East and certain other small countries are generally called developed countries.

INCOME AND OTHER CRITERIA

- People not only think of better income but also have goals such as security, respect for others, equal treatment, freedom, etc. in mind. Similarly, when we think of a nation or a region, we may, besides average income, think of other equally important attributes.
- The other important criteria to measure the development of any reason are: -
 - Infant Mortality Rate (or IMR) indicates the number of children that die before the age of one year as a proportion of 1000 live children born in that particular year.
 - Literacy Rate measures the proportion of literate population in the 7 and above age group.

- Net Attendance Ratio is the total number of children of age group 14 and 15 years attending school as a percentage of total number of children in the same age group.

QUESTIONS

Q1. What is the main criterion used by the world bank in classifying different countries? What are the limitations of this criterion, if any?

Q2. Why do we use averages? Are there any limitations to their use? Illustrate with your own examples related to development.

Q3. Distinguish between the following:

- I. National income and per capita income.
- II. Developed countries and Developing countries.

NOTE:-

- To understand Q1 NCERT question watch the video via link:
<http://play.google.com/store/apps/details?id=latest.ncertbooks>
- To understand Q2 NCERT question watch the video via link:
<http://play.google.com/store/apps/details?id=latest.ncertbooks>
- To understand Q3 watch the video via link:
<https://youtu.be/bMPxXBfptVg>
- To understand the topic “how to compare different countries or states” watch the video via link:
<https://youtu.be/f9h65PSif7M>

