HARI VIDYA BHAWAN

Date – 27/04/2020

WORK SHEET-11
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. Locate the points (5, 0), (0, 5), (2, 5), (5, 2), (–3, 5), (–3, –5), (5, –3) and (6, 1) in the Cartesian plane.

2. Plot the following ordered pairs (x, y) of numbers as points in the Cartesian plane. Use the scale 1cm = 1 unit on the axes.

X	-3	0	-1	4	2
Y	7	-3.5	-3	4	-3

3. In which quadrant or on which axis do each of the points (– 2, 4), (3, – 1), (– 1, 0), (1, 2) and (– 3, – 5) lie? Verify your answer by locating them on the Cartesian plane.

4. Plot the points (x, y) given in the following table on the plane, choosing suitable units of distance on the axes.

X	-2	-1	0	1	3
Y	8	7	-1.25	3	-1

5. The coordinates of the origin are _____.

6. The coordinates of a point on the x-axis are of the form _____and that of the point on the y-axis are _____.

7. The coordinates of a point are of the form (+ , +) in the _____ , (–, +) in the _____ , (–, –) in the _____ and (+, –) in the _____ , where + denotes a positive rea l number and – denotes a negative real number.

8. The horizontal line is called the _____ , and the vertical line is called the _____.

9. The coordinate axes divide the plane into _____ parts called _____.

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

NOTE:

HARI VIDYA BHAWAN

SUBJECT- SOCIAL SCIENCE

CLASS – IX

SESSION – 2020 – 21

REVISION WORK SHEET -1

Date – 27-04-2020

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CH-1 The Story Of Village Palampur

Multiple Choice Questions

Q1. Multiple cropping means growing:

a) Only one crop

b) More than one crop

c) More than two crops

Q2. What is the main production activity in palampur village?

a) Farming

b) Transport

c) Dairy farming

Q3. HYV seeds stand for:

a) High yielding variety of seeds

b) Half yielding variety of seeds

c) Heavy yielding variety of seeds

Q4 Which of the following is fixed capital?

a) Money

b) Seeds

c) Machines and tools

d) All of these

Fill in the blanks

5. Most of the houses in palampur have ……………connections.

6. Tube wells are the main sources of ………………at palampur.

7. Every production is organised by combining land, labour, physical capital and human capital which are known as ………………….

8. Raw materials and building are called ………………

(electric, irrigation, factors of production, working capital)

Very Short Questions

Q9. How many families live in palampur?

Q10. What does Human capital mean?

Q11. Name the non-farm activities of palampur.

Short Questions

Q12. How did the use of modern farming methods prove beneficial for Indian farmers?

Q13. What are the disadvantages in using chemical fertilizers?

Long Questions

Q14. What is the aim of production? What are its factors?

Q15. Distinguish between traditional methods of farming and modern methods of farming.

NOTE:

➢ This worksheet is for your self-assessment. Write all answers in your notebook. Read ch-1 Economics and try to answer them.

HARI VIDYA BHAWAN   Date-27/04/2020
WORK SHEET-12
SUBJECT- MATHEMATICS
CLASS- X
SESSION - (2020-21)
CHAPTER – 3 (Pair of Linear Equation in Two Variables)

Instructions to be followed :-

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  1. *Solve the following pairs of equations by reducing them to a pair of linear equations:*

(i)	$\dfrac{1}{2x}+\dfrac{1}{3y}=2$	$\dfrac{1}{3x}+\dfrac{1}{2y}=\dfrac{13}{6}$
(ii)	$\dfrac{2}{\sqrt{x}}+\dfrac{3}{\sqrt{y}}=2$	$\dfrac{4}{\sqrt{x}}-\dfrac{9}{\sqrt{y}}=-1$
(iii)	$\dfrac{4}{x}+3y=14$	$\dfrac{3}{x}-4y=23$
(iv)	$\dfrac{5}{x-1}+\dfrac{1}{y-2}=2$	$\dfrac{6}{x-1}-\dfrac{3}{y-2}=1$
(v)	$\dfrac{7x-2y}{xy}=5$	$\dfrac{8x+7y}{xy}=15$
(vi)	$6x+3y=6xy$	$2x+4y=5xy$
(vii)	$\dfrac{10}{x+y}+\dfrac{2}{x-y}=4$	$\dfrac{15}{x+y}-\dfrac{5}{x-y}=-2$
(viii)	$\dfrac{1}{3x+y}+\dfrac{1}{3x-y}=\dfrac{3}{4}$	$\dfrac{1}{2(3x+y)}-\dfrac{1}{2(3x-y)}=\dfrac{-1}{8}$

2. Ritu can row downstream 20 km in 2 hours, and upstream 4 km in 2 hours. Find her speed of rowing in still water and the speed of the current.

3. 2 women and 5 men can together finish an embroidery work in 4 days, while 3 women and 6 men can finish it in 3 days. Find the time taken by 1 woman alone to finish the work, and also that taken by 1 man alone.

4. Roohi travels 300 km to her home partly by train and partly by bus. She takes 4 hours if she travels 60 km by train and the remaining by bus. If she travels 100 km by train and the remaining by bus, she takes 10 minutes longer. Find the speed of the train and the bus separately.

For any query

Question 1(i) to (viii)

https://youtu.be/JWlfTslfXKM

https://youtu.be/_SSJOOQKXqI

https://youtu.be/ZBqolkhL5y8

https://youtu.be/ZBqolkhL5y8

Question 2 to 4

https://youtu.be/YOqrVrXB4mQ

https://youtu.be/1f4jodmPNvU

https://youtu.be/GqY8-yWCTrE

HARI VIDYA BHAWAN

SUBJECT- SOCIAL SCIENCE

CLASS – X

SESSION – 2020 – 21

WORK SHEET -12

Date – 27-04-2020

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ECONOMICS (CH-1) DEVELOPMENT

NOTES:-   PUBLIC FACILITIES

- Public Distribution System (PDS) are function well in some states and there people are able to get the problem rectified.

Health and nutritional status of people of such states is likely to be better.

- The Human Development Index (HDI) uses a combination of development factors such as health, education, income for comparison.
- According to the HDR (Human Development Report) health and education are the indicators of the development besides food, clothes and shelter.

SUSTAINABILITY OF DEVELOPMENT

- Sustainability is the capacity to use the resources judiciously and maintain the ecological balance. Every generation wants to get the maximum benefits from the available resources but such a thing would be quite disastrous because the available resources shall be exhausted within a short time and the future generation will be deprived of these resources.
- The issue of sustainability is important for development because development must be in relation with the future. If natural resources are not sustained, development will stagnate after a point of time.
- The earth has enough resources to meet the needs of all if they are used judiciously and not overexploited by a few, and depriving the others who need them. Resources that are replenished by nature are known as renewable resources,e.g ground water. Resources that are not replenished that is those which will get exhausted after some time are known as non-renewable resources. e.g. crude oil.

FLOW LEARNING

Factors for HDR (UNDP)

1. Education   2. Health Status   3. Per Capita Income

WAYS FOR ACHIEVING SUSTAINABLE DEVELOPMENT

1. Scientific and proper use of natural resources.
2. Judicious use of resource for better future.
3. No increase in pollution or environment degradation.
4. Protection of flora and fauna from human exploitation.
5. Resources like water, wind, solar energy etc. are inexhaustible but we must see that they are not put to wrong use.
6. There is no harm in using the land for cultivation but we should see that its fertility is maintained otherwise sooner or later it will turn into a wasteland.

BMI (Body Mass Index)
- It is used to measure the undernourishment and over nourishment among the people.
- How is BMI calculated?
    - ➢ BMI is calculated by dividing the weight by the square of the height.

QUESTIONS

Q1. List a few examples of environmental degradation that you may have observed around you.

Q2. Why is the issue of sustainability important for development?

Q3. The full form of PDS is

I.   Private development system
II. Public department system
III. Pure domestic system

IV.   Public distribution system

Q4. How is BMI (Body Mass Index) calculated?

Q5. What does sustainability of development mean? How can sustainable development be achieved?

Q6. Distinguish between developed countries and developing countries.

NOTE:-

- Q1 given from NCERT book, watch the video via link:

  http://play.google.com/store/apps/details?id=latest.ncertbooks

- Q2 given from NCERT book, watch the video via link:

  http://play.google.com/store/apps/details?id=latest.ncertbooks

- Q3,4 and 5 given from above notes
- To understand Q6 watch the video via link:
  https://youtu.be/bMPxXBfptVg
- To understand the "public facilities" watch the video via link:
  https://youtu.be/LT-AdKgz0J4
- To understand the topic Sustainability of Development "watch the video link: https://youtu.be/g886xDwRDiI