

**REMAL PUBLIC SCHOOL**



**SESSION-2022-23**

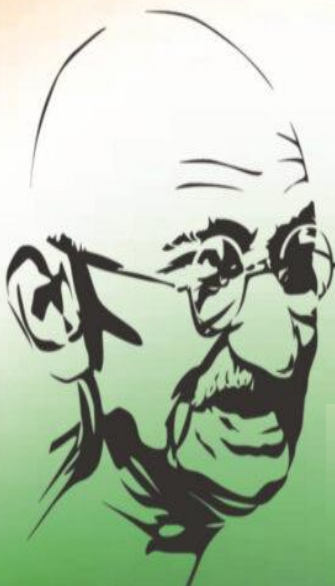
**School Reopening date - 04.07.2022**

**Project submission date - 08-07-2022**

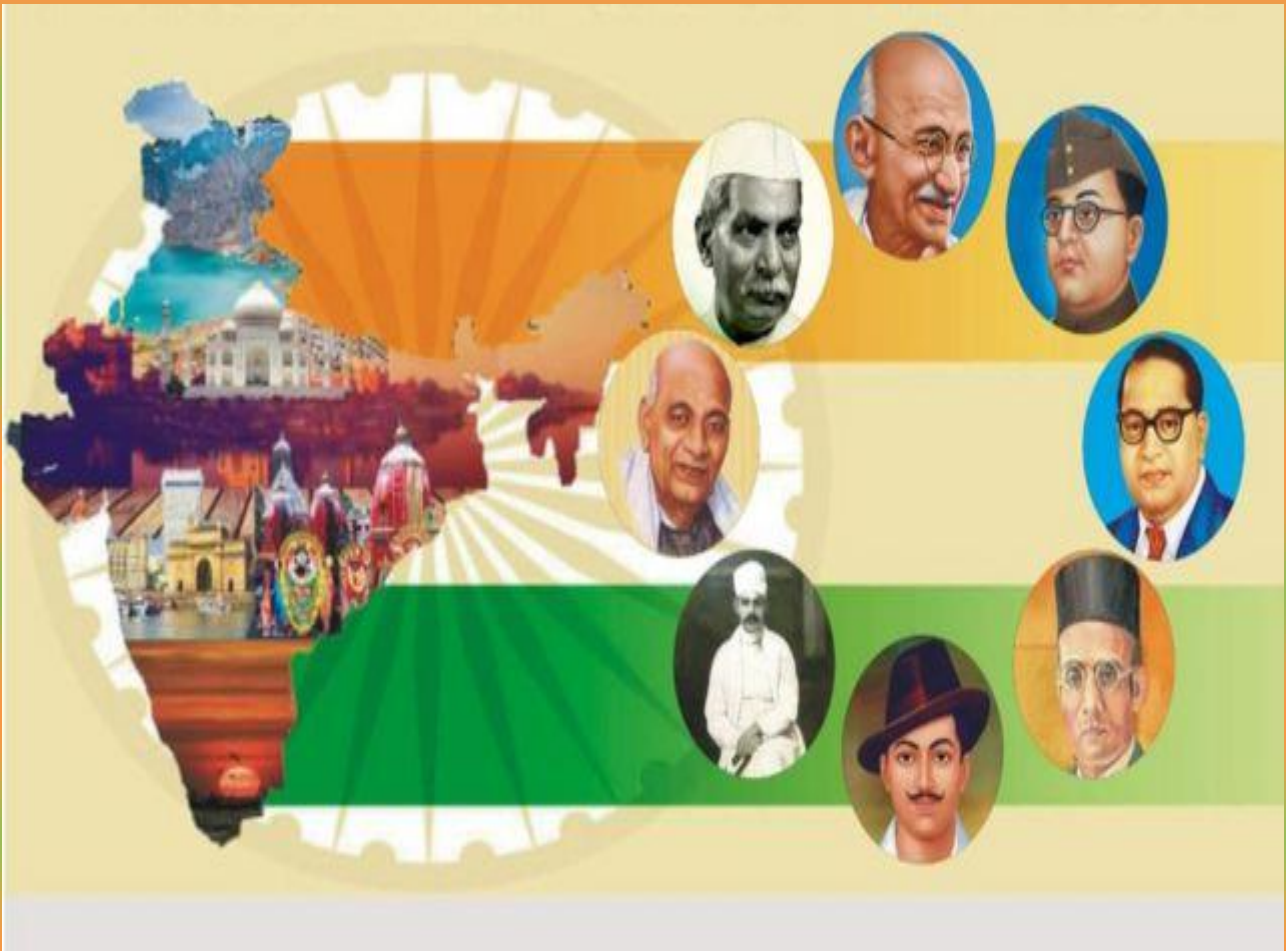
**SUMMER HOLIDAY HOMEWORK**

**THEME:- AZADI KA AMRIT MAHOTSAV**

75  
आज़ादी का  
अमृत महोत्सव



स्वदेश से अनुराग हो,  
सबका सहयोग-साथ हो,  
सब मिलकर आगे बढ़ें,  
एक यही विश्वास हो।



Azadi Ka Amrit Mahotsav is an initiative of the Government of India to celebrate and commemorate 75 years of independence and the glorious history of it's people, culture and achievements.

This Mahotsav is dedicated to the people of India who have not only been instrumental in

bringing India thus far in its evolutionary journey but also hold within them the power and

potential to enable Prime Minister Narendra Modi's vision of activating India 2.0, fuelled by the spirit of Aatamnirbhar Bharat.

The Prime Minister, Shri Narendra Modi inaugurated the 'Azadi Ka Amrit Mahotsav' by flagging off 'Dandi March' from Sabarmati Ashram, Ahmedabad on 12th March, 2021. The celebrations started 75 weeks before our 75th anniversary of Independence and will end on 15<sup>th</sup> August 2023.

**Dear Parents,**

**'Exciting time is here again! It's time for Summer Vacation and fun filled activities'. Children are reservoirs of potential which needs to be tapped and channelized in diverse ways. We at Remal feel that it is very important to fire their imagination and foster an outlook that helps them explore, discover and rediscover. Children should be encouraged to develop intellectually and physically. Summer Vacation is the best and fruitful time for learning and for nurturing creativity. It is the time when you can connect with your child in many ways.**

**The Holidays' Homework designed would not only enhance achievements of your children but also help to enhance family relationships. It would teach your child to work independently and would improve their basic academic skills, such as reading, writing, and spellings and would help them develop personal skills and time management.**

**The homework should be done on A-4 size sheet of the following colours.**

- **EVS/Science - Yellow**
- **Mathematics - Blue**
- **Hindi - Pink**
- **English - Light Purple**
- **Social Science - Green**

**The interdisciplinary project should have:**

- **Creative cover page indicating the name of child and topic**
- **Index**
- **Acknowledgement**
- **Certificate**
- **Project content with photographs or pictures**
- **The source of data**
- **Bibliography showing the source of data.**

**HEY KIDS! HAVE A HAPPY, HAPPENING BREAK!!**



**REMAL PUBLIC SCHOOL**  
**BLOCK A-2, SECTOR-3, ROHINI,**  
**DELHI-110085**

**PORTFOLIO - COVER PAGE**

Name: .....

Class & Sec: .....

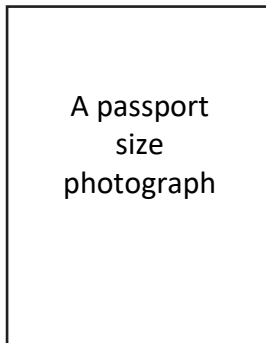
Roll No.: .....

Adm. No.: .....

Session: .....

Name of the Class Teacher:

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# AUTOBIOGRAPHICAL SKETCH

My Goals: \_\_\_\_\_

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My Strengths: \_\_\_\_\_

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My Interests and Hobbies: \_\_\_\_\_

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My Areas of Improvement: \_\_\_\_\_

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**LEARNING BEYOND CLASSROOMS  
SEWA ACTIVITIES/ COMMUNITY SERVICE**

Event/ Activity	Date	Role	Learning Opportunity

How did this program help you to evolve as a better person?

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**HPE ACTIVITIES**

What skills did you acquire through these activities?

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Why are these important for the students?

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# AWARDS/ACHIEVEMENTS

## I. ACADEMIC ACHIEVEMENTS

YEAR	SCHOLAR BADGE	BENCH MARKS	GOOD READER	SCHOLARSHIP

## II. CO-CURRICULAR / CULTURAL ACTIVITIES

Interschool / Interhouse

S. No.	Event	Organizing Institute	Participation Level / Achievement

## III. SPORTS ACTIVITIES

Interschool / Interhouse

S. No.	Event	Organizing Institute	Participation Level / Achievement

## REFLECTION/ SELF ASSESSMENT

Criteria for selecting assignments for the portfolio.

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My best piece of work in the portfolio. (Give a reason)

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Learning opportunities while creating the portfolio.

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WOW moments while creating the portfolio.

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Things I could do to enhance the quality of my portfolio.

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## ASSESSMENT SHEET WITH CRITERIA

<b>S. No.</b>	<b>Assessment Criteria</b>	<b>Self</b>	<b>Peer1</b>	<b>Peer2</b>	<b>Teacher</b>
<b>1.</b>	<b>Content (2 marks)</b>				
<b>2.</b>	<b>Creativity (1 mark)</b>				
<b>3.</b>	<b>Organisation (1 mark)</b>				
<b>4.</b>	<b>Neatness (1 mark)</b>				
<b>5.</b>	<b>Total (5 marks)</b>				

Peer1 Signature: \_\_\_\_\_

Peer1 Name: \_\_\_\_\_

Peer2 Signature: \_\_\_\_\_

Peer2 Name: \_\_\_\_\_

Parent's Signature: \_\_\_\_\_

Parent's Name: \_\_\_\_\_

Teacher's Signature: \_\_\_\_\_

Teacher's Name: \_\_\_\_\_



**REMAL PUBLIC SCHOOL**  
**HOLIDAYS' HOMEWORK**  
**CLASS: IX**

**Theme : Azadi Ka Amrit Mahotsav**

**Topic : Save Soil**

Let's feel proud to be a part of 'Azadi ka Amrit Mahotsav'. We can contribute our share to this Mahotsav by saving the Soil. From the long list of nature's gifts to man, the soil is of utmost importance. Save soil is a global movement that addresses the soil crises by bringing together people worldwide to stand up for soil health. We being Remalite also participated in this movement led by Sadguru.

Let's support this drive by working more on it in different ways.

**ENGLISH**

- Q1** Make a comic strip of the lesson- Adventures of Toto in your literature notebooks.
- Q2** Write self-composed poetry on the given topics with minimum 4 stanzas
- A. Music
  - B. I am blessed
  - C. My school My pride

OR

Futures has always been one of the greatest mysteries of the world beings. The high-tech things that we boast of in the present times, may one day become less useful or out-dated with the advent of super high-tech discoveries. It's time to brainstorm a little and plunge into the marvellous world of mysteries- FUTURE. Take up the following task and make your holidays worthwhile.

Imagine yourself living in 2159. You study in an altogether different environment as compared to the present time. Write an article/ poem for your school magazine highlighting the striking features of the institution of 2159. Include the below-mentioned content in your write-up.

(Take an idea from the chapter- The Fun They Had)

- a) The Future School's mission and vision
- b) The state of infrastructure
- c) Events Calendar
- d) Achievements corner
- e) School celebrations and cultural programs

Q3

## PROJECT

‘The past cannot be changed. The future is yet in your hands’

Soil is the basis of our life and this planet is in danger because of the depilating layer of soil. Write a short paragraph describing the condition of the soil, its causes, and your suggestions to make it better.

“No matter how much wealth, education, and money we have, our children cannot live well unless we restore the soil and water. **Conscious Planet, the only way forward.**”

### HINDI

प्रश्न संख्या 1 एवं 2 A4 size की गुलाबी रंग की शीट्स पर करें। प्रश्न 1 का कार्य अनुक्रमांक अनुसार करें।

- प्रश्न 1- (क) 'मृदा संरक्षण'(soil conservation) विषय पर अपनी बहन अथवा भाई से हुई बातचीत को संवाद रूप में लिखें। (अनुक्रमांक 1 से 10)
- (ख) 'मृदा संरक्षण' विषय पर सचित्र सुंदर लेख (लगभग 100 शब्दों में) लिखें। (अनुक्रमांक 11 से 20)
- (ग) 'मृदा संरक्षण' संबंधी सुंदर सचित्र कोलाज तैयार करें। (अनुक्रमांक 21 से 30)
- (घ) 'मेरे देश की माटी' संबंधित दो कविताएं सचित्र लिखें। (अनुक्रमांक 31 से 45)
- प्रश्न 2- आधुनिक काल के किसी एक लेखक/ लेखिका अथवा कवि/ कवयित्री के जीवन परिचय एवं साहित्यिक योगदान पर सचित्र परियोजना कार्य करें।
- प्रश्न 3- कक्षा में हुआ समस्त पाठ्यक्रम कंठस्थ करें।

### SCIENCE

**ACTIVITY – SAVE & SAVOUR: ‘Save the soil, Savour the food!’**

Take any old container/box/bag etc. Use some garden soil and plant any eatable in it. The eatables can be simple herbs, leafy plants, micro greens or even fruits & vegetables. Give your plant things like sunlight, water, nutrients, air essential for its growth – along with your love. Once your plant is ready to give you food, reap it and enjoy a healthy recipe with your family.

**Videos you can refer for your gardening journey:**

<https://youtube.com/playlist?list=PLWO3Lu2-EdIyFN3FTUjO0hDdaJPVyMsPs>

Use A-4 size yellow coloured sheet to answer the following Questions:

- Q.1** Name the plant you grew. Look for its scientific name and list the nutrients you get from it.
- Q.2** Did you use some manure or fertilizer for growth of your plant? Mention what did you use and how you obtained it.
- Q.3** Compare the usage of natural manure and chemical fertilizers for food production and the impact they have on soil in the long run.
- Q.4** How does growing the right kind of plants and crops help in saving the soil. (List any 2 advantages)
- Q.5** Do you think it will be a good practice if everyone grows their own food? Elaborate your answer with reasons.

## **SOCIAL SCIENCE**

**Use A4 size sheet of green colour.**

1. The soil is the great connector of our lives, the source and destination of all.

If you want to have food, conserve the soil. Find out any five methods and places where they are adopted in India and locate these areas on an outline political map of India.

2. Prepare a project on any one of the following topics according to your Roll No. (as per discussion in the class)

<b>Topics</b>	<b>Roll No.</b>
1. Floods	1,6,11,16,21,26,31,36,41
2. Cyclones	2,7,12,17,22,27,32,37,42
3. Earthquakes	3,8,13,18,23,28,33,38,43
4. Landslides	4,9,14,19,24,29,34,39,44
5. Droughts	5,10,15,20,25,30,35,40,45

The Project should be containing the following points:-

- (i) Meaning of the disaster their consequences and management.
- (ii) How to face such situations.
- (iii) Disaster mitigation plans.
- (iv) How to create awareness.
- (v) How will you make preparedness among the community.

### **Guidelines for the Project**

1. Project should be made from Eco friendly products.
2. The project report should be hand written by the student himself/herself and comprise of not more than 15 A-4 size sheets.
3. Make sure project is well prepared, well presented and originality must be maintained.

4. All these parameters will be assessed accordingly.
5. Pg 1 - Cover page showing project file title with pictures,name,class,section,roll.no,school name and session.
6. Pg 2 – Contents (Index)
7. Pg 3 – Acknowledgement
8. Pg 4-13 – Subject Matter
9. Pg 14 – Bibliography
- 10.Pg 15 – Teacher’s Evaluation Report

### **ARIFICIAL INTELLIGENCE**

- Make a E-Poster on “Soil Conservation”
- Make a PowerPoint presentation to showcase “Evolution and Progress in India across IT sector”

### **Art & Craft**

- Draw a poster of save soil by using old T- shirt. (Fabric paints).

### **DANCE**

**Q1 Write down about the folk dance of given states with pictures.**

Note : On A4 size sheet

1. Meghalaya
2. Mizoram
3. Nagaland
- 4.odisha

**Q2 Practice the steps given by the dance teacher in the video.**

<https://youtu.be/g62J-8nV5FI>

### **MUSIC**

1. Search one raag and write with aroh avroh, bandish, 4 alankar learn also.
2. Make a chart for shehnai vadak bismillah khan and biography.

## MATHEMATICS

The basic components of soil are minerals, organic matter, water and air. The typical soil consists of approximately 45% mineral, 5% organic matter, 20-30% water, and 20-30% air. Represent this data through a creative pie chart.

**Give classification of soils various layers of soil and**

**Represent this classification through a table and represent it by bar diagram.**

1 Design a mathematical newspaper (size 10" x 14") which includes interesting, entertaining, knowledge oriented questions, puzzles, riddles, crosswords, poems, articles, reports, pictures and designs etc. Also, give the appropriate name for the newspaper (minimum of 4 pages).

2. Prepare a power point presentation on application of mensuration in day to day life

**# SOLVE NCERT EXAMPLER EXERCISES OF CHAPTER 1 ,3 & 4**

### Complete square root spiral activity

#### Construct a Square Root Spiral

#### OBJECTIVE

To construct a square root spiral.

#### Materials Required

1. Adhesive
2. Geometry box
3. Marker
4. A piece of plywood

#### Prerequisite Knowledge

1. Concept of number line.
2. Concept of irrational numbers.
3. Pythagoras theorem.

#### Theory

1. A number line is a imaginary line whose each point represents a real number.

- The numbers which cannot be expressed in the form  $p/q$  where  $q \neq 0$  and both  $p$  and  $q$  are integers, are called irrational numbers, e.g.  $\sqrt{3}$ ,  $\pi$ , etc.
- According to Pythagoras theorem, in a right angled triangle, the square of the hypotenuse is equal to the sum of the squares of other two sides containing right angle.  $\Delta ABC$  is a right angled triangle having right angle at B. (see Fig.

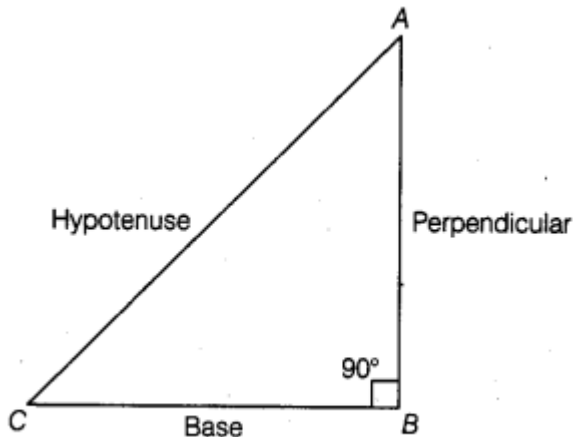


Fig. 1.1

1.1)

- Therefore,  $AC^2 = AB^2 + BC^2$   
where,  $AC$  = hypotenuse,  $AB$  = perpendicular and  $BC$  = base

## Procedure

- Take a piece of plywood having the dimensions 30 cm x 30 cm.
- Draw a line segment  $PQ$  of length 1 unit by taking 2 cm as 1 unit, (see Fig. 1.2)

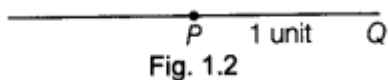


Fig. 1.2

- Construct a line  $QX$  perpendicular to the line segment  $PQ$ , by using compasses

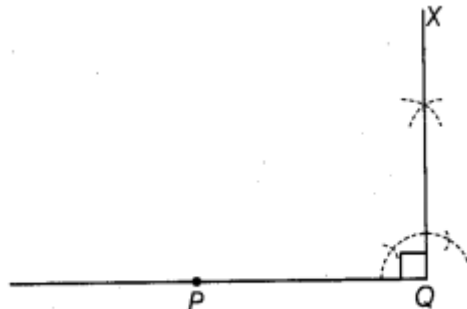


Fig. 1.3

or a set square, (see Fig. 1.3)

- From  $Q$ , draw an arc of 1 unit, which cut  $QX$  at  $C$ (say). (see Fig. 1.4)

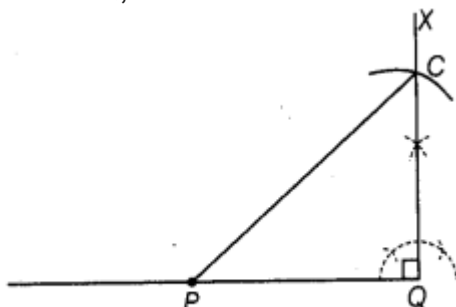


Fig. 1.4

- Join  $PC$ .
- Taking  $PC$  as base, draw a perpendicular  $CY$  to  $PC$ , by using compasses or a set square.

7. From C, draw an arc of 1 unit, which cut CY at D (say).
8. Join PD. (see Fig. 1.5)

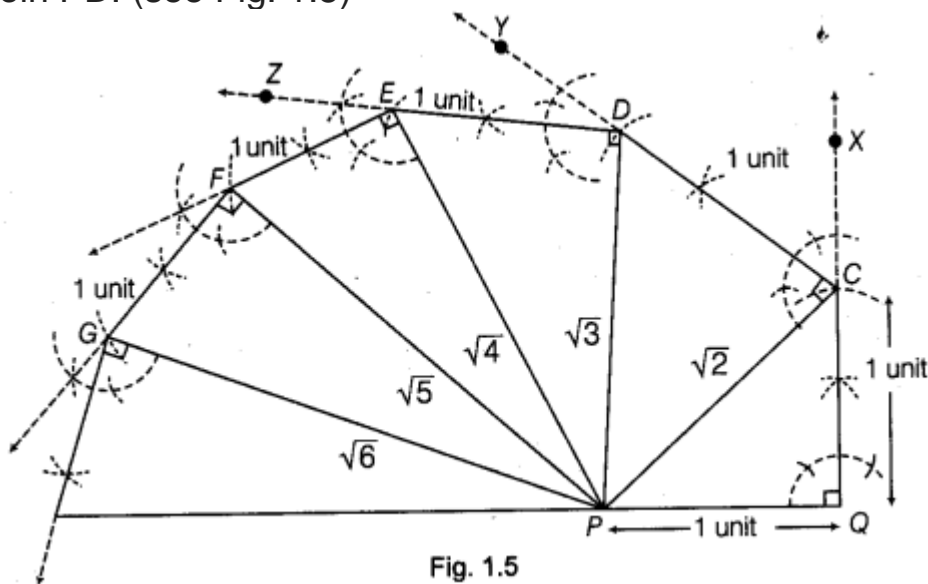
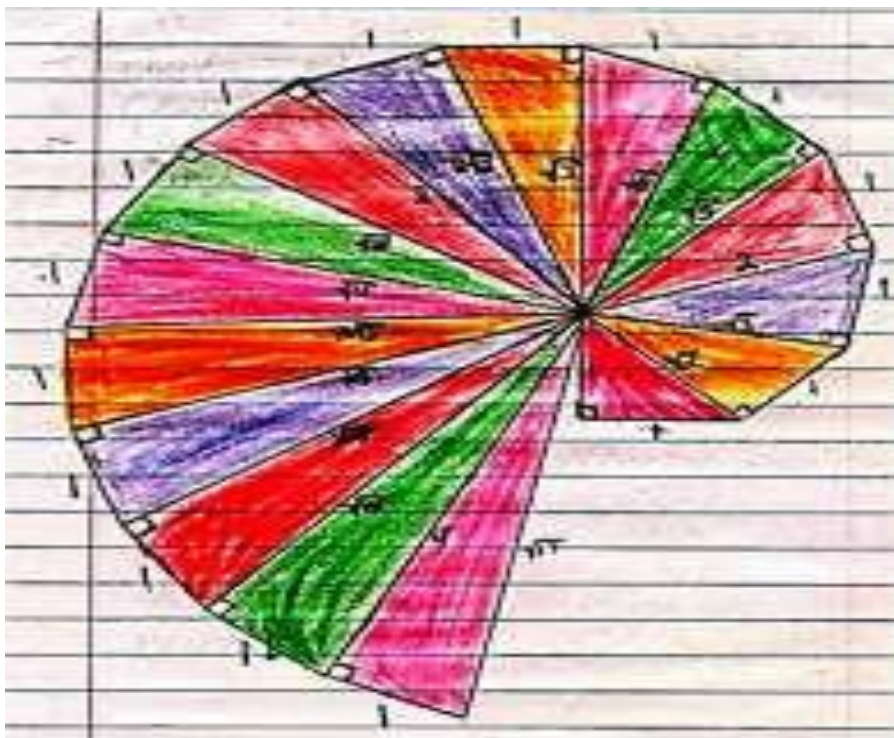


Fig. 1.5

9. Taking PD as base, draw a perpendicular DZ to PD, by using compasses or a set square.
10. From D, draw an arc of 1 unit, which cut DZ at E (say).
11. Join PE. (see Fig. 1.5)

Keep repeating the above process for sufficient number of times. Then, the figure so obtained is called a 'square root spiral'.



**WATCH FOLLOING TYPE VIDEOS TO FASTER YOUR CALCULATIONS**

- # <https://youtu.be/G7jpketWjLg>
- <https://youtu.be/YOIDklc49mY>

PLEASE TRY THESE QUIZZIES TO CHECK YOUR KNOWLEDGE



<https://quizizz.com/join?gc=07538986>

<https://quizizz.com/join?gc=18811178>



## WORKSHEETS

### TOPIC: Number System

Q1 Find 12 rational number between

(a)  $\frac{44}{55}$  and  $\frac{55}{66}$

(b)  $\frac{-1-1}{77}$  and  $\frac{22}{77}$

Q2 Find a rational number between following by mean method

(a) (-2) and (-3)

(b) 6 and 7

Q3 Express the following rational number in the form of  $\frac{pp}{qq}$ ; where p and q are integers and q  $\neq$  0

(a)  $0.\overline{25}0.\overline{25}$

(b)  $2.31\overline{7}2.31\overline{7}$

(c)  $0.\overline{24}10.\overline{24}1$

Q4 Express  $0.3 + 0.\overline{3} + 0.\overline{33}0.3 + 0.\overline{3} + 0.\overline{33}$  in the form of  $\frac{pp}{qq}$ .

Q5 Simplify the following:

(a)  $(\sqrt{5} - 4\sqrt{7})(\sqrt{7} + 3\sqrt{5})(\sqrt{5} - 4\sqrt{7})(\sqrt{7} + 3\sqrt{5})$

(b)  $(\sqrt{11} - 4)(\sqrt{2} + 3)(\sqrt{11} - 4)(\sqrt{2} + 3)$

(c)  $(6\sqrt{5} - 2\sqrt{3})(3\sqrt{5} - 2\sqrt{5})(6\sqrt{5} - 2\sqrt{3})(3\sqrt{5} - 2\sqrt{5})$

(d)  $(11\sqrt{2} + \sqrt{2})(\sqrt{2} + 3\sqrt{2})(11\sqrt{2} + \sqrt{2})(\sqrt{2} + 3\sqrt{2})$

(a) Q6 Simplify:  $\frac{1}{\sqrt{7}+\sqrt{6}} + \frac{1}{\sqrt{6}+\sqrt{5}} + \frac{1}{\sqrt{5}+\sqrt{4}} + \frac{1}{\sqrt{4}+\sqrt{3}} + \frac{1}{\sqrt{6}+\sqrt{5}} + \frac{1}{\sqrt{5}+\sqrt{4}} + \frac{1}{\sqrt{4}+\sqrt{3}}$

(b)  $\frac{\sqrt{7}-\sqrt{2}\sqrt{7}-\sqrt{2}}{8}$

(c)  $\sqrt{18-7\sqrt{3}}\sqrt{18-7\sqrt{3}}$

Q7 Find the value of p and q if  $\frac{7-\sqrt{3}}{7+\sqrt{3}} + \frac{7+\sqrt{3}}{7-\sqrt{3}} = p - q\sqrt{3}$   $\frac{7-\sqrt{3}}{7+\sqrt{3}} + \frac{7+\sqrt{3}}{7-\sqrt{3}} = p - q\sqrt{3}$

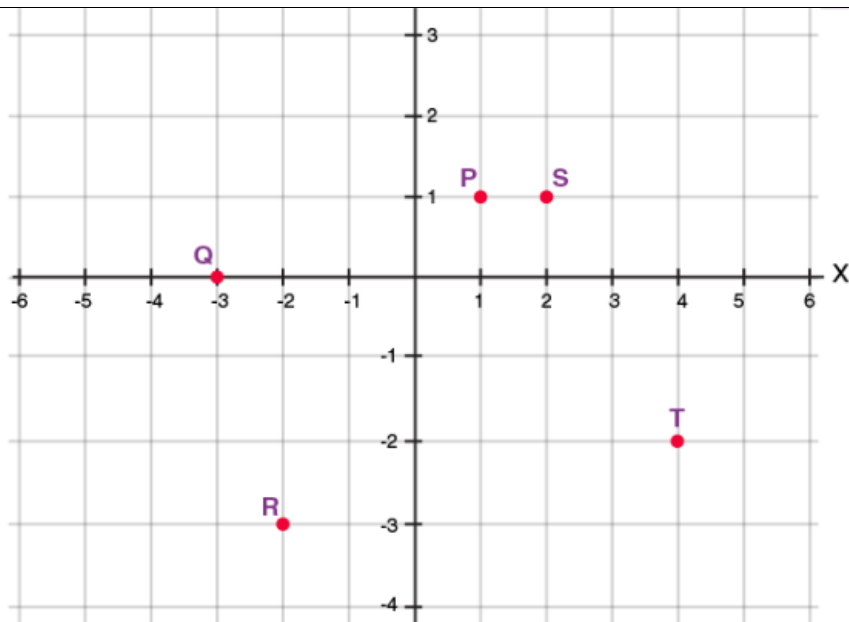
Q8 Represent the following irrational on the number line:

- (a)  $\sqrt{17}\sqrt{2}$       (b)  $\sqrt{5}$       (c)  $\sqrt{3}\sqrt{3}$

Q9 Represent  $\sqrt{7.6}\sqrt{7.6}$  on the number line.

### CO-ORDINATE GEOMETRY

<b>1</b>	<p>Name the quadrant in which the point lies:</p> <p>(a) A (1, 1)            (b) B (2, 4)            (c) C (-3, -10)            (d) D (-1, 2)            (e) E (1, -1)            (f) F (-2, -4)            (g) G (-3, 10)            (h) H (1, -2)</p>
<b>2</b>	<p>Which of the following points lie on the x-axis?            A (1, 1), B (1, 0), C (0, 1), D (0, 0), E (-1, 0), F (0, -1), G (4, 0), H (0, 7)</p>
<b>3</b>	<p>Which of the following points lie on the y-axis?            A (1, 1), B (1, 0), C (0, 1), D (0, 0), E (-1, 0), F (0, -1), G (4, 0), H (0, 7)</p>
<b>4</b>	<p>Plot the points A (2, 0), B (2, 2), C (0, 2) and join OA, AB, BC and CO. What figure do you obtain ?</p>
<b>5</b>	<p>Plot the points A (4, 4), B (-4, 4) and join OA, OB and BA. What figure do you obtain ?</p>
<b>6</b>	<p>Draw the graph for the equation <math>-2x + y - 7 = 0</math>. Check whether the point (-3, -2) is on the given line.</p>
<b>7</b>	<p>Write the coordinates of each of the points P, Q, R, S, T and O from the figure given.</p>



**8** Plot the following points and check whether they are collinear or not:

(i)  $(1, 3), (-1, -1), (-2, -3)$

(ii)  $(1, 1), (2, -3), (-1, -2)$

(iii)  $(0, 0), (2, 2), (5, 5)$

**9** Without plotting the points indicate the quadrant in which they will lie, if

(i) the ordinate is 5 and abscissa is  $-3$

(ii) the abscissa is  $-5$  and ordinate is  $-3$

(iii) the abscissa is  $-5$  and ordinate is 3

(iv) the ordinate is 5 and abscissa is 3

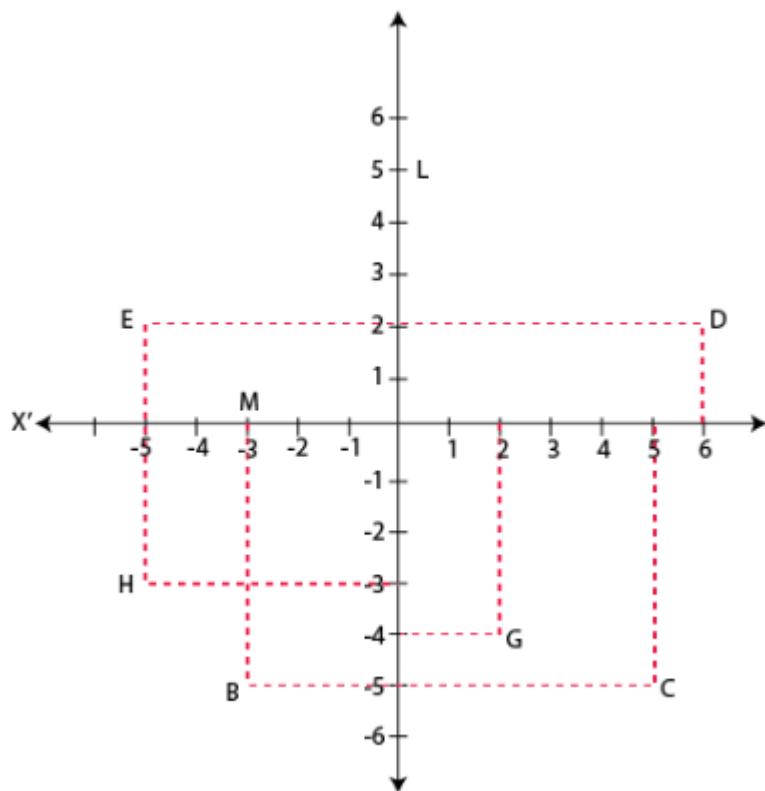
See figure and write the following:

1. The coordinates of B.
2. The coordinates of C.
3. The point identified by the coordinates  $(-3, -5)$ .
4. The point identified by the coordinates  $(2, -4)$ .
5. The abscissa of the point D.
6. The ordinate of the point H.
7. The coordinates of the point L.
8. The coordinates of the point M.

**10** See figure and write the following:

1. The coordinates of B.
2. The coordinates of C.
3. The point identified by the coordinates  $(-3, -5)$ .
4. The point identified by the coordinates  $(2, -4)$ .
5. The abscissa of the point D.

6. The ordinate of the point H.
7. The coordinates of the point L.
8. The coordinates of the point M.



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

11

x	-2	-1	0	1	3
y	8	7	-1.25	3	-1

12

Write the answer to each of the following questions:

- (i) What is the name of the 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

13

Points A  $(5, 3)$ , B  $(-2, 3)$  and D  $(5, -4)$  are three vertices of a square ABCD. Plot these points on a graph paper and hence find the coordinates of the vertex C.

14

Write the coordinates of the vertices of a rectangle whose length and breadth are 5 and 3 units respectively, one vertex is at the origin, the longer side lies on the x-axis, and one of the vertices lies in the third quadrant.

15	Plot the following points and write the name of the figure obtained by joining them in order: P(-3, 2), Q (-7, -3), R (6, -3), S (2, 2)
16	Locate the points (5, 0), (0, 5), (2, 5), (5, 2), (-3, 5), (-3, -5), (5, -3) and (6, 1) in the Cartesian plane
17	What is the area of the triangle formed by joining points (0, 5), (0, 11), and (8, 9)?
18	What is the perpendicular distance of the point (-7, 6) from the x-axis. What is its perpendicular distance from the y-axis?
19	What is the area of the triangle formed by joining points (0, 5), (0, 11), and (8, 9)?
20	An ant moves 5 meters in the east direction and 5 meters in the south direction. What is the position of the ant in the coordinate axes assuming origin to be the point from where she starts travelling?
21	A person covers 10 meters in the north direction. What is his position in the coordinate axis assuming origin to the point from where he starts travelling?
22	The distance of a point from the y-axis is called its _____, or _____, and the distance of the point from the x-axis is called its _____, or _____.
23	The signs of the coordinates of a point are of the form _____ in the first quadrant, _____ in the second quadrant, _____ in the third quadrant and _____ in the fourth quadrant, where + denotes a positive real number and - denotes a negative real number.
24	Is it possible that $(x, y) = (y, x)$ ? Explain.
25	At how many points x-axis and y-axis intersect each other in the coordinate axis?