

Maharashtra Board Solutions Class 6-Maths (Practice Set 1): Chapter 1- Basic Concepts in Geometry



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Maharashtra Board Solutions Class 6-Maths (Practice Set 1): Chapter 1- Basic Concepts in Geometry

Class 6: Maths Chapter 1 solutions. Complete Class 6 Maths Chapter 1 Notes.

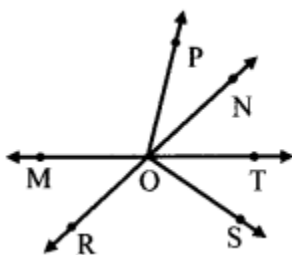
Maharashtra Board Solutions Class 6-Maths (Practice Set 1): Chapter 1- Basic Concepts in Geometry

Maharashtra Board 6th Maths Chapter 1, Class 6 Maths Chapter 1 solutions

Question 1.

Look at the figure alongside and name the following:

- i. Collinear points
- ii. Rays
- iii. Line segments
- iv. Lines



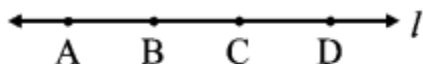
Solution:

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- | | | |
|-------------------|------------------|---|
| i. | Collinear Points | Points M, O and T |
| Points R, O and N | | |
| ii. | Rays | ray OP, ray OM, ray OR, ray OS, ray OT and ray ON |
| iii. | Line Segments | seg MT, seg RN, seg OP, seg OM, seg OR, seg OS, seg OT and seg ON |
| iv. | Lines | line MT and line RN |

Question 2.

Write the different names of the line.



Solution:

The different names of the given line are line l, line AB, line AC, line AD, line BC, line BD and line CD.

Question 3.

	Group A		Group B
i.		a.	Ray
ii.		b.	Plane
iii.		c.	Line
iv.		d.	Line segment

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(i – Line),

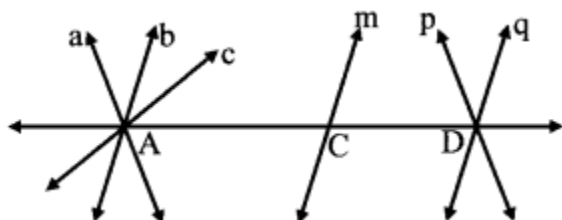
(ii – Line Segment),

(iii – Plane),

(iv – Ray)

Question 4.

Observe the given figure. Name the parallel lines, the concurrent lines and the points of concurrence in the figure.



Solution:

Parallel Lines

line b, line m and line q are parallel to each other.

line a and line p are parallel to each other.

Concurrent Lines and Point of Concurrence

line AD, line a, line b and line c are concurrent. Point A is their point of concurrence.

line AD, line p and line q are concurrent. Point D is their point of concurrence.

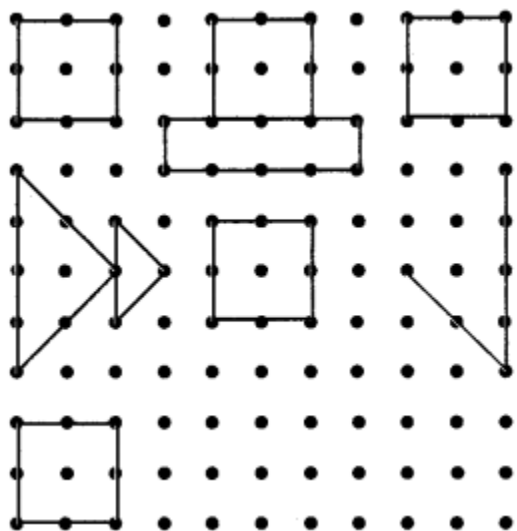
Questions and Activities

Question 1.

Complete the rangoli. Then, have a class discussion with the help of the following questions:

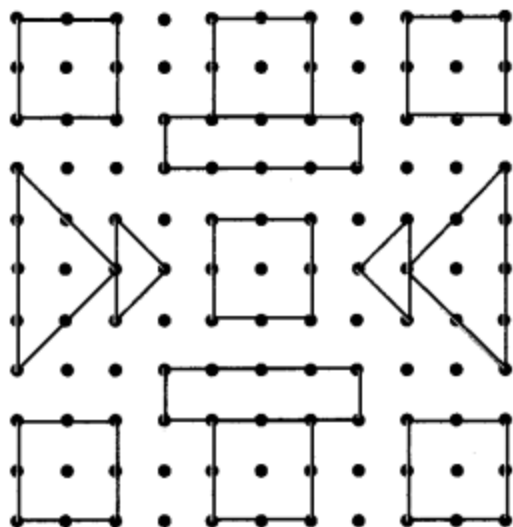
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1. What kind of surface do you need for making a rangoli?
2. How do you start making a rangoli?
3. What did you do in order to complete the rangoli?
4. Name the different shapes you see in the rangoli.
5. Would it be possible to make a rangoli on a scooter or on an elephant's back?
6. When making a rangoli on paper, what do you use to make the dots?



Solution:

1. For making a rangoli, I need a flat surface.
2. I can start making a rangoli by drawing equally spaced dots on the flat surface using a chalk.
3. In order to complete the rangoli, I joined the dots by straight lines to make a design.
4. In the rangoli, I find various shapes such as square, rectangle and triangles of two different size.
5. No. It won't be possible to make a rangoli on a scooter or on an elephant's back as they do not have a flat surface.
6. When making a rangoli on paper, I made use of scale and pencil to make equally spaced dots.



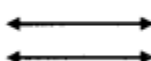
Question 2.

Write the proper term, 'intersecting lines' or 'parallel lines' in each of the empty boxes.
(Textbook pg. no. 4)

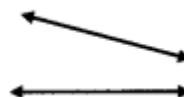
i.



ii.



iii.



Solution:

i. Intersecting Lines

ii. Parallel Lines

iii. Intersecting Lines

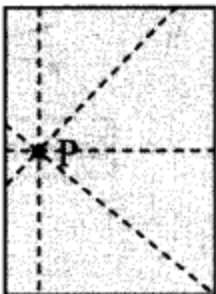
Question 3.

Draw a point on the blackboard. Every student now draws a line that passes through that point. How many such lines can be drawn? (Textbook pg. no. 2)

Solution:

An infinite number of lines can be drawn through one point.

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Question 4.

Draw a point on a paper and use your ruler to draw lines that pass through it. How many such lines can you draw? (Textbook pg. no. 2)

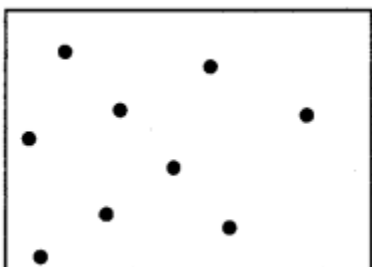
Solution:

An infinite number of lines can be drawn through one point.

Question 5.

There are 9 points in the figure. Name them. (Textbook pg. no. 3)

- i. If you choose any two points, how many lines can pass through the pair?
- ii. Which three or more of these nine points lie on a straight line?
- iii. Of these nine points, name any three or more points which do not lie on the same line.

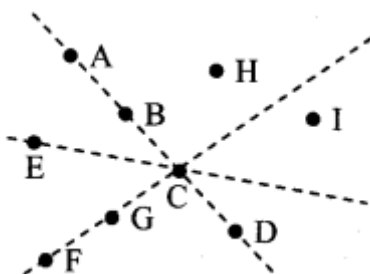


Solution:

- i. One and only one line can be drawn through two distinct , points.
- ii. Points A, B, C and D lie on the same line. Points F, G and C lie on the same line.

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iii. Points E, F, G, H and I do not lie on the same line, points A, B, E, H and I do not lie on the same line.



Question 6.

Observe the picture of the game being played. Identify the collinear players, non-collinear players, parallel lines and the plane. (Textbook pg. no. 4)



Solution:

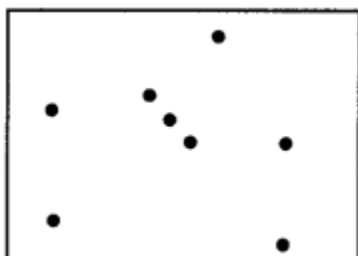
- | | | |
|------|-----------------------|---|
| i. | Collinear Players | Players A, B, C, D, E, F, G |
| ii. | Non-collinear Players | Players I, H, C Players I, A, B etc. |
| iii. | Parallel Lines | line l, line m, line n, line p, line q, line r and line s |
| iv. | Plane | The ground on which the boys are playing is the plane |

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Question 7.

In January, we can see the constellation of Orion in the eastern sky after seven in the evening. Then it moves up slowly in the sky. Can you see the three collinear stars in this constellation? Do you also see a bright star on the same line some distance away? (Textbook pg. no. 4)



Solution:

1. The three stars shown by points C, D and E are collinear.
2. The star shown by point H lies on the same line as the stars C, D and E.



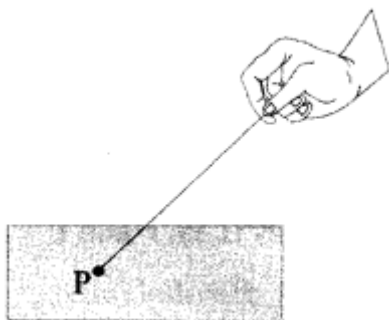
Question 8.

Maths is fun! (Textbook pg. no. 5)

Take a flat piece of thermocol or cardboard, a needle and thread. Tie a big knot or button or bead at one end of the thread. Thread the needle with the other end. Pass the needle

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up through any convenient point P. Pull the thread up, leaving the knot or the button below. Remove the needle and put it aside. Now hold the free end of the thread and gently pull it straight. Which figure do you see? Now, holding the thread straight, turn it in different directions. See how a countless number of lines can pass through a single point P.



Solution:

1. The pulled thread forms a straight line.
2. An infinite number of lines can be drawn through one point.

Question 9.

Choose the correct option for each of the following questions:

i. _____ is used to name a point.

- (A) Capital letter
- (B) Small letter
- (C) Number
- (D) Roman numeral

Solution :

- (A) Capital letter

ii. A line segment has two points showing its limits. They are called_____

- (A) origin

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- (B) end points
- (C) arrow heads
- (D) infinite points

Solution :

- (B) end points

iii. An arrow head is drawn at one end of the ray to show that it is _____ on that side.

- (A) finite
- (B) ending
- (C) infinite
- (D) broken

Solution :

- (C) infinite

iv. Lines which lie in the same plane but do not intersect are said to be _____ to each other.

- (A) intersecting
- (B) collinear
- (C) parallel
- (D) non-collinear

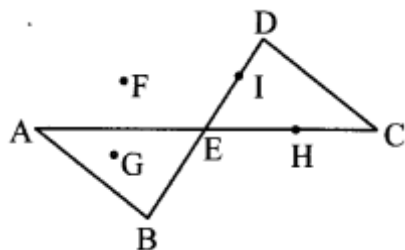
Solution :

- (C) parallel

Question 10.

Determine the collinear and non-collinear points in the figure alongside:

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Solution:

Collinear points:

1. Points A, E, H and C.
2. Points B, E, I and D.

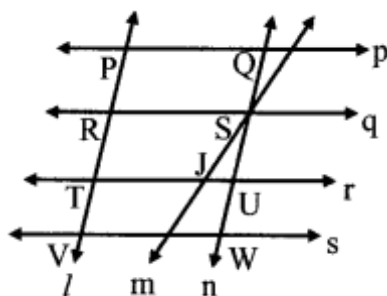
Non-collinear points:

Points B, G, F and I

Question 11.

Look at the figure alongside and answer the questions given below:

- i. Name the parallel lines.
- ii. Name the concurrent lines and the point of concurrence.
- iii. Write the different names of line PV.



Solution:

- i. Parallel lines:

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a. line l and line n

b. line p, line q, line r and line s

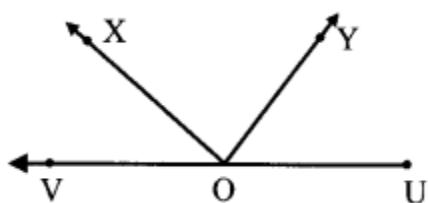
ii. Concurrent Lines: line q, line m, line n

Point of Concurrence: point S

iii. line l, line PT, line PR, line PV, line RT, line RV and line TV.

Question 12.

Name the different line segments and rays in the given figure:



Solution:

Line Segments:

seg UV, seg OY, seg OX, seg OV and seg OU

Rays:

ray OV, ray OX, ray OY and ray UV.



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- Chapter 9- HCF-LCM (Practice Set 25)
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The Maharashtra State Board of Secondary and Higher Secondary Education or MSBSHSE (Marathi: महाराष्ट्र राज्य माध्यमिक आणि उच्च माध्यमिक शिक्षण मंडळ), is an **autonomous and statutory body established in 1965**. The board was amended in the year 1977 under the provisions of the Maharashtra Act No. 41 of 1965.

The Maharashtra State Board of Secondary & Higher Secondary Education (MSBSHSE), Pune is an independent body of the Maharashtra Government. There are more than 1.4 million students that appear in the examination every year. The Maha State Board conducts the board examination twice a year. This board conducts the examination for SSC and HSC.

The Maharashtra government established the Maharashtra State Bureau of Textbook Production and Curriculum Research, also commonly referred to as Ebalbharati, in 1967 to take up the responsibility of providing quality textbooks to students from all classes studying under the Maharashtra State Board. MSBHSE prepares and updates the curriculum to provide holistic development for students. It is designed to tackle the difficulty in understanding the concepts with simple language with simple illustrations. Every year around 10 lakh students are enrolled in schools that are affiliated with the Maharashtra State Board.

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How many state boards are there in Maharashtra?

The Maharashtra State Board of Secondary & Higher Secondary Education, conducts the HSC and SSC Examinations in the state of Maharashtra through its nine Divisional Boards located at Pune, Mumbai, Aurangabad, Nasik, Kolhapur, Amravati, Latur, Nagpur and Ratnagiri.

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