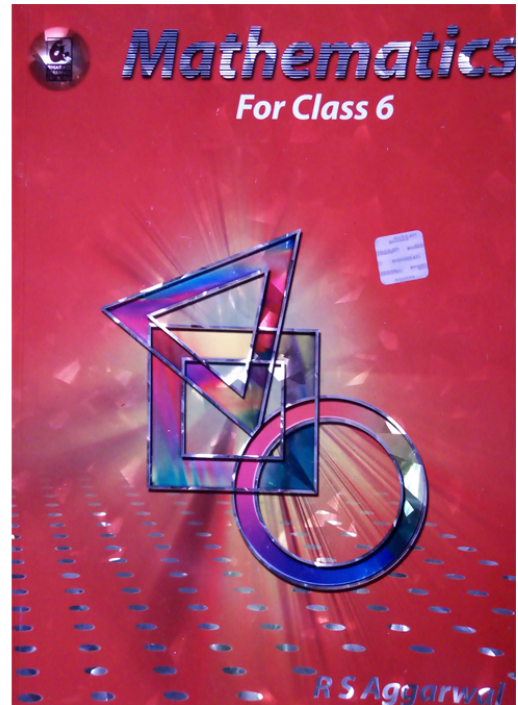


RS Aggarwal Solutions for Class 6 Maths

Chapter 11 –Line Segment, Ray and Line

Class 6 - Chapter 11 Line Segment, Ray and Line



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RS Aggarwal Solutions for Class 6

Maths Chapter 11 –Line Segment, Ray and Line

Class 6: Maths Chapter 11 solutions. Complete Class 6 Maths Chapter 11 Notes.

RS Aggarwal Solutions for Class 6 Maths Chapter 11–Line Segment, Ray and Line

RS Aggarwal 6th Maths Chapter 11, Class 6 Maths Chapter 11 solutions

Ex 11A Solutions

Question 1.

Solution:

Line segment

(i) In figure (i) are XY and YZ

(ii) In figure (ii)

AD , AB , AC , AE , BD , BC , CE

(iii) In figure (iii)

PQ , PR , PS , QR , QS , RS

Question 2.

Solution:

(i) In fig. (i), line segments is AB , and

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rays are $AC \rightarrow$ and $BD \rightarrow$.

(ii) In fig. (ii), line segments are

GE , GP , EP and rays are

$EF \rightarrow$, $GH \rightarrow$, $PQ \rightarrow$

(iii) In fig. (iii), line segments are OL , OP

and rays are $LM \rightarrow$, $PQ \rightarrow$.

Question 3.

Solution:

(i) Four line segments are PR , QR , PQ , RS .

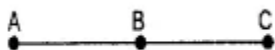
(ii) Four ray can be $PA \rightarrow$, $QC \rightarrow$, $RB \rightarrow$, $SD \rightarrow$

(iii) PR , QS are two non-intersecting lines.

Question 4.

Solution:

(i) Three or more points in a plane are said to be collinear if they all lie on the same line.



(ii) In the figure given above, points A, B, C are collinear points.

We can draw exactly one line passing through three collinear points

Question 5.

Solution:

(i) Four pairs of intersecting lines are : (AB, PQ) ; (AB, RS) ; (CD, PQ) ; (CD, RS)

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(ii) Four collinear points are : A, Q, S, B

(iii) Three non-collinear points are : A, Q, P

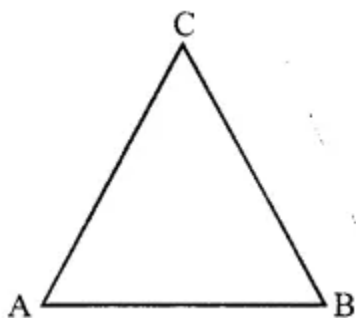
(iv) Three concurrent lines are : AB, PS and RS.

(v) Three lines whose point of intersection is P are : CD, PQ and PS.

Question 6.

Solution:

The lines drawn through given points A, B, C are as shown below. The names of these lines are AB, BC and AC.

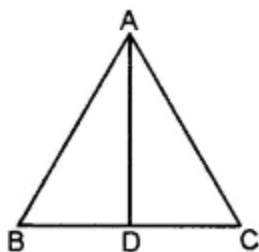


Also it is clear that three different lines can be drawn.

Question 7.

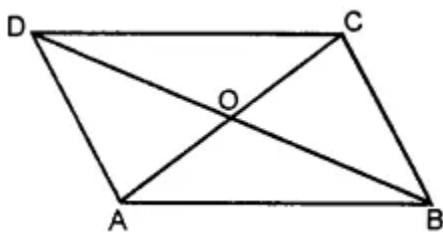
Solution:

(i) In the the given figure, there are six line segments, namely AB, AC, AD, BD, BC, DC.

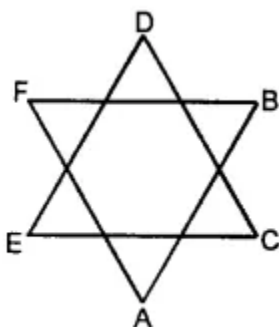


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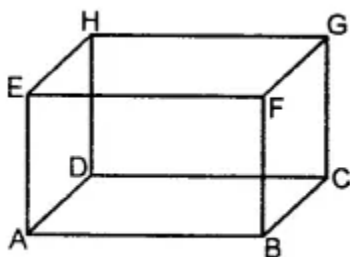
(ii) In the given figure, there are ten line segments, namely, AD, AB, AC, AO, OC, BC, BD, BO, OD, CD.



(iii) In the given figure, there are six line segments, namely AB, AF, BF, CD, DE, CE.



(iv) In the given figure, there are twelve line segments, namely, AB, BC, CD, AD, BF, CG, DH, AE, EF, FG, GH, EH.

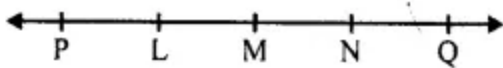


Question 8.

Solution:

PQ $\longleftrightarrow$ is a line

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(i) False, as M does not lie on $NQ \rightarrow$

(ii) True

(iii) True

(iv) True

(v) True

Question 9.

Solution:

(i) False

Point has no dimensions.

(ii) False

A line segment has a length.

(iii) False

A ray has no finite length.

(iv) False

If $AB \rightarrow$ and ray $BA \rightarrow$ have opposite directions.

(v) True

Length of AB and BA is same.

(vi) True

Line $AB \leftrightarrow$ and $BA \leftrightarrow$ are same.

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(vii) True

Distance between A and B or B and A is same, so they determine a unique line segment.

(viii) True

Two lines intersect each other at one point.

(ix) False

Two intersecting planes intersect at one line not at one point.

(x) False

If A, B, C are collinear and points D, E are collinear then it is not necessary that there points A, B, C, D and E are collinear.

(xi) False

Infinite number of rays can be drawn with a given end point.

(xii) True

We can draw one and only one line passing through two given points.-

(xiii) True

We can draw infinite number of lines pass through a given point.

Question 10.

Solution:

(i) definite

(ii) one

(iii) no

(iv) definite

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(v) cannot. Ans.

Ex 11B Solutions

Mark against the correct answer in each of following.

Question 1.

Solution:

(c) a line has no end points

Question 2.

Solution:

(b) a ray has no end points

Question 3.

Solution:

(a) a line segment has two end points

Question 4.

Solution:

(b) a line segment has definite length

Question 5.

Solution:

(b) a line segment can be drawn on a piece of paper

Question 6.

Solution:

(d) unlimited number can be drawn passing through a given point

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Question 7.**Solution:**

(a) one only can be drawn passing through two given points

Question 8.**Solution:**

Two planes intersect in a line. (c)

Question 9.**Solution:**

Two lines intersect at a point. (a)

Question 10.**Solution:**

Two points in a plane determine exactly one line segment. (a)

Question 11.**Solution:**

The minimum number of points of intersection of three lines in a plane is 0.(d)

Question 12.**Solution:**

The maximum number of a points of intersection of three lines in a plane is 3 (d)

Question 13.**Solution:**

Every line segment has a definite length. (c)

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Question 14.**Solution:**

Ray $\overrightarrow{AB}$ not same as ray $\overrightarrow{BA}$ Both are different. Hence $\overrightarrow{AB}$ same as $\overrightarrow{BA}$ is false.(b)

Question 15.**Solution:**

An unlimited number of rays can be drawn with a given point as the initial point. (c)



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- Chapter 3–Whole Numbers
- Chapter 4–Integers
- Chapter 5–Fractions
- Chapter 6–Simplification
- Chapter 7–Decimals
- Chapter 8–Algebraic Expressions
- Chapter 9–Linear Equations in One Variable
- Chapter 10–Ratio, Proportion and Unitary Method
- Chapter 11–Line Segment, Ray and Line
- Chapter 12–Parallel Lines
- Chapter 13–Angles and Their Measurement
- Chapter 14–Constructions (Using Ruler and a Pairs of Compasses)
- Chapter 15–Polygons
- Chapter 16–Triangles
- Chapter 17–Quadrilaterals
- Chapter 18–Circles
- Chapter 19–Three-Dimensional Shapes
- Chapter 20–Two-Dimensional Reflection Symmetry (Linear Symmetry)
- Chapter 21–Concept of Perimeter and Area
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He was born on January 2, 1946 in a village of Delhi. He graduated from Kirori Mal College, University of Delhi. After completing his M.Sc. in Mathematics in 1969, he joined N.A.S. College, Meerut, as a lecturer. In 1976, he was awarded a fellowship for 3 years and joined the University of Delhi for his Ph.D. Thereafter, he was promoted as a reader in N.A.S. College, Meerut. In 1999, he joined M.M.H. College, Ghaziabad, as a reader and took voluntary retirement in 2003. He has authored more than 75 titles ranging from Nursery to M. Sc. He has also written books for competitive examinations right from the clerical grade to the I.A.S. level.

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