

Maharashtra Board Solutions Class 6-Maths (Practice Set 40): Chapter 17- Geometrical Constructions



For any clarifications or questions you can write to info@indcareer.com

Postal Address

IndCareer.com, 52, Shilpa Nagar, Somalwada Nagpur - 440015
Maharashtra, India

WhatsApp: +91 9561 204 888, **Website:** <https://www.indcareer.com>

<https://www.indcareer.com/schools/maharashtra-board-solutions-class-6-maths-practice-set-40-chapter-17-geometrical-constructions/>



Maharashtra Board Solutions Class 6-Maths (Practice Set 40): Chapter 17- Geometrical Constructions

Class 6: Maths Chapter 17 solutions. Complete Class 6 Maths Chapter 17 Notes.

Maharashtra Board Solutions Class 6-Maths (Practice Set 40): Chapter 17- Geometrical Constructions

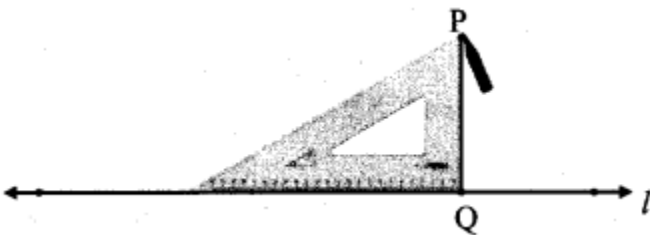
Maharashtra Board 6th Maths Chapter 17, Class 6 Maths Chapter 17 solutions

Question 1.

Draw line l . Take point P anywhere outside the line. Using a set square draw a line PQ perpendicular to line l .

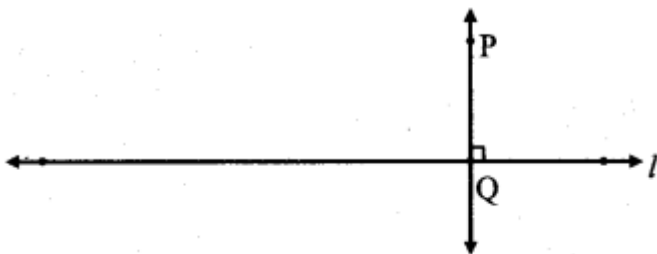
Solution:

Step 1:



Step 2:

<https://www.indcareer.com/schools/maharashtra-board-solutions-class-6-maths-practice-set-40-chapter-17-geometrical-constructions/>



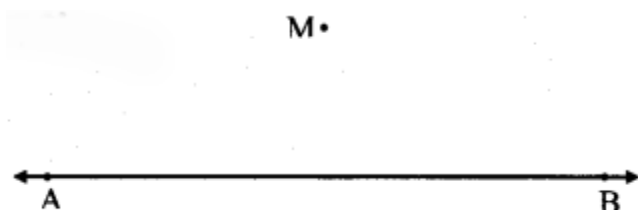
line $PQ \perp$ line l .

Question 2.

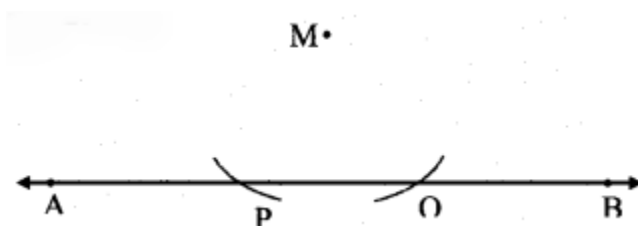
Draw line AB . Take point M anywhere outside the line. Using a compass and ruler, draw a line MN perpendicular to line AB .

Solution:

Step 1:

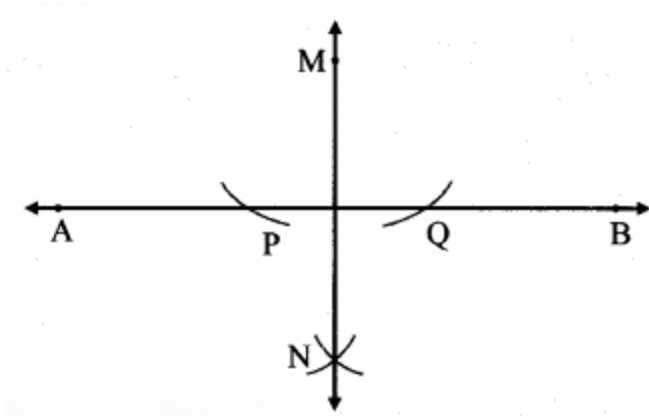


Step 2:



Step 3:

<https://www.indcareer.com/schools/maharashtra-board-solutions-class-6-maths-practice-set-40-chapter-17-geometrical-constructions/>



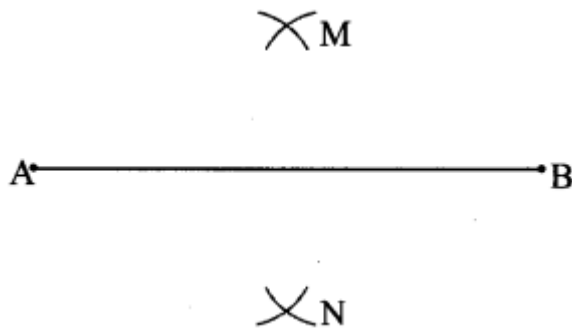
line $MN \perp$ line AB .

Question 3.

Draw a line segment AB of length 5.5 cm. Bisect it using a compass and ruler.

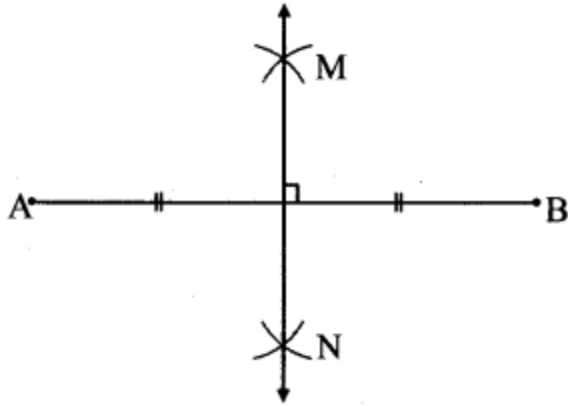
Solution:

Step 1:



Step 2:

<https://www.indcareer.com/schools/maharashtra-board-solutions-class-6-maths-practice-set-40-chapter-17-geometrical-constructions/>



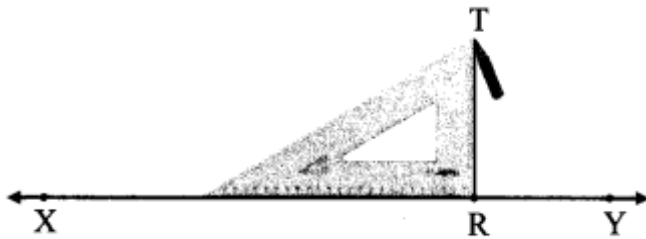
line MN is the perpendicular bisector of seg AB.

Question 4.

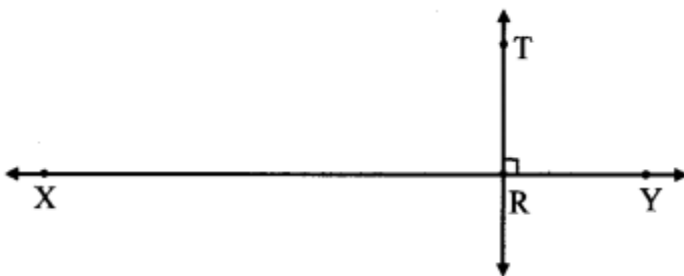
Take point R on line XY. Draw a perpendicular to XY at R, using a set square.

Solution:

Step 1:



Step 2:



line $TR \perp$ line XY.

<https://www.indcareer.com/schools/maharashtra-board-solutions-class-6-maths-practice-set-40-chapter-17-geometrical-constructions/>

Questions and Activities

Question 1.

In the above construction, why must the distance in the compass be kept constant?
(Textbook pg. no. 90)

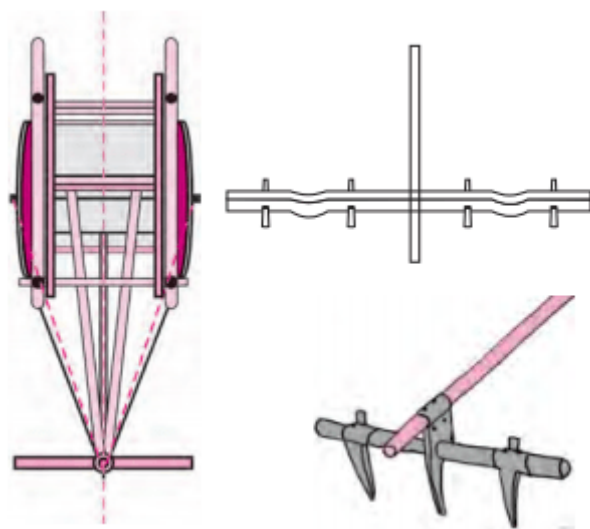
Solution:

The point N is at equal distance from points P and Q.

If we change the distance of the compass while drawing arcs from points P and Q, we will not get a point which is at equal distance from P and Q. Hence, the distance in the compass must be kept constant.

Question 2.

The Perpendicular Bisector. (Textbook pg. no. 90)



1. A wooden 'yoke' is used for pulling a bullock cart. How is the position of the yoke determined?
2. To do that, a rope is used to measure equal distances from the spine/midline of the bullock cart. Which geometrical property is used here?
3. Find out from the craftsmen or from other experienced persons, why this is done.

Solution:

<https://www.indcareer.com/schools/maharashtra-board-solutions-class-6-maths-practice-set-40-chapter-17-geometrical-constructions/>

1. For the bullock cart to be pulled in the correct direction by the yoke, its Centre O should be equidistant from the either sides of the cart.
2. The property of perpendicular bisector is used to make the point equidistant from both the ends
3. A rope is used just like a compass to get equal distances from the spine/midline of bullock cart.

Question 3.

Take a rectangular sheet of paper. Fold the paper so that the lower edge of the paper falls on its top edge, and fold it over again from right to left. Observe the two folds that have formed on the . paper. Verify that each fold is a perpendicular bisector of the other. Then measure the following distances. (Textbook pg. no. 91)

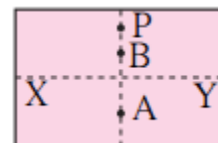
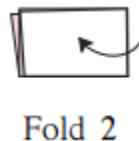
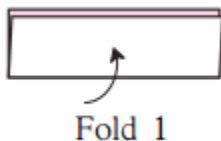
i. $l(XP)$

ii. $l(XA)$

iii. $l(XB)$

iv. $l(YP)$

v. $l(YA)$



You will observe that $l(XP) = l(YP)$, $l(XA) = l(YA)$ and $l(XB) = l(YB)$

Therefore we can conclude that all points on the vertical fold (perpendicular bisector) are equidistant from the endpoints of the horizontal fold.

Solution:

[Note: Students should attempt this activity on their own.]

<https://www.indcareer.com/schools/maharashtra-board-solutions-class-6-maths-practice-set-40-chapter-17-geometrical-constructions/>



Maharashtra Board Solutions

Class 6 Maths

- Chapter 1- Basic Concepts in Geometry (Practice Set 1)
- Chapter 2- Angles (Practice Set 2)
- Chapter 2- Angles (Practice Set 3)
- Chapter 3- Integers (Practice Set 4)
- Chapter 3- Integers (Practice Set 5)
- Chapter 3- Integers (Practice Set 6)
- Chapter 3- Integers (Practice Set 7)
- Chapter 3- Integers (Practice Set 8)
- Chapter 4- Operations on Fractions (Practice Set 9)
- Chapter 4- Operations on Fractions (Practice Set 10)
- Chapter 4- Operations on Fractions (Practice Set 11)
- Chapter 4- Operations on Fractions (Practice Set 12)
- Chapter 4- Operations on Fractions (Practice Set 13)
- Chapter 5- Decimal Fractions (Practice Set 14)
- Chapter 5- Decimal Fractions (Practice Set 15)
- Chapter 5- Decimal Fractions (Practice Set 16)
- Chapter 5- Decimal Fractions (Practice Set 17)
- Chapter 6- Bar Graphs (Practice Set 18)
- Chapter 6- Bar Graphs (Practice Set 19)
- Chapter 7- Symmetry (Practice Set 20)
- Chapter 7- Symmetry (Practice Set 21)
- Chapter 8- Divisibility (Practice Set 22)

<https://www.indcareer.com/schools/maharashtra-board-solutions-class-6-maths-practice-set-40-chapter-17-geometrical-constructions/>

- Chapter 9- HCF-LCM (Practice Set 23)
- Chapter 9- HCF-LCM (Practice Set 24)
- Chapter 9- HCF-LCM (Practice Set 25)
- Chapter 10- Equations (Practice Set 26)
- Chapter 10- Equations (Practice Set 27)
- Chapter 11- Ratio-Proportion (Practice Set 28)
- Chapter 11- Ratio-Proportion (Practice Set 29)
- Chapter 12- Percentage (Practice Set 30)
- Chapter 13- Profit-Loss (Practice Set 31)
- Chapter 13- Profit-Loss (Practice Set 32)
- Chapter 13- Profit-Loss (Practice Set 33)
- Chapter 13- Profit-Loss (Practice Set 34)
- Chapter 14- Banks and Simple Interest (Practice Set 35)
- Chapter 15- Triangles and their Properties (Practice Set 36)
- Chapter 16- Quadrilaterals (Practice Set 37)
- Chapter 16- Quadrilaterals (Practice Set 38)
- Chapter 17- Geometrical Constructions (Practice Set 39)
- Chapter 17- Geometrical Constructions (Practice Set 40)
- Chapter 18- Three Dimensional Shapes (Practice Set 41)

<https://www.indcareer.com/schools/maharashtra-board-solutions-class-6-maths-practice-set-40-chapter-17-geometrical-constructions/>

About About Maharashtra State Board (MSBSHSE)

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.

<https://www.indcareer.com/schools/maharashtra-board-solutions-class-6-maths-practice-set-40-chapter-17-geometrical-constructions/>

FAQs

Where do I get the Maharashtra State Board Books PDF For free download?

You can download the Maharashtra State Board Books from the eBalbharti official website, i.e. cart.ebalbharati.in or from this article.

Add image

How to Download Maharashtra State Board Books?

Students can get the Maharashtra Books for primary, secondary, and senior secondary classes from here. You can view or download the Maharashtra State Board Books from this page or from the official website for free of cost. Students can follow the detailed steps below to visit the official website and download the e-books for all subjects or a specific subject in different mediums.

Step 1: Visit the official website ebalbharati.in

Step 2: On the top of the screen, select "Download PDF textbooks"

Step 3: From the "Classes" section, select your class.

Step 4: From "Medium", select the medium suitable to you.

Step 5: All Maharashtra board books for class 11th will now be displayed on the right side.

Step 6: Click on the "Download" option to download the PDF book.

Who developed the Maharashtra State board books?

As of now, the MSCERT and Balbharti are responsible for the syllabus and textbooks of Classes 1 to 8, while Classes 9 and 10 are under the Maharashtra State Board of Secondary and Higher Secondary Education (MSBSHSE).

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.

<https://www.indcareer.com/schools/maharashtra-board-solutions-class-6-maths-practice-set-40-chapter-17-geometrical-constructions/>

About IndCareer

IndCareer.com is a leading developer of online career guidance resources for the Indian marketplace. Established in 2007, IndCareer.com is currently used by over thousands of institutions across India, including schools, employment agencies, libraries, colleges and universities.

IndCareer.com is designed to assist you in making the right career decision - a decision that meets your unique interests and personality.

For any clarifications or questions you can write to **info@indcareer.com**

Postal Address

IndCareer.com
52, Shilpa Nagar,
Somalwada
Nagpur - 440015
Maharashtra, India

WhatsApp: +91 9561 204 888

Website: <https://www.indcareer.com>

<https://www.indcareer.com/schools/maharashtra-board-solutions-class-6-maths-practice-set-40-chapter-17-geometrical-constructions/>