

# Maharashtra Board Solutions Class 5-Maths (Problem Set 24) - Part 1: Chapter 6- Angles



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# Maharashtra Board Solutions Class 5-Maths (Problem Set 24) - Part 1: Chapter 6- Angles

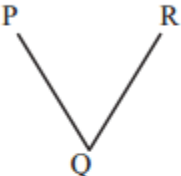
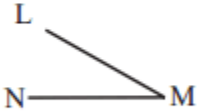
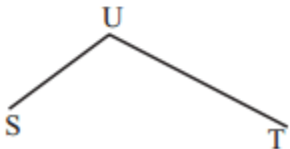
Class 5: Maths Chapter 6 solutions. Complete Class 5 Maths Chapter 6 Notes.

## Maharashtra Board Solutions Class 5-Maths (Problem Set 24) - Part 1: Chapter 6- Angles

Maharashtra Board 5th Maths Chapter 6, Class 5 Maths Chapter 6 solutions

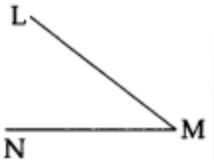
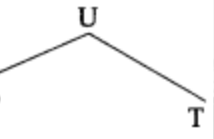
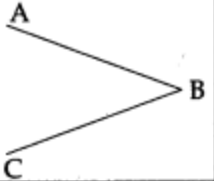
**Important Questions and Answers.**

Complete the following table.

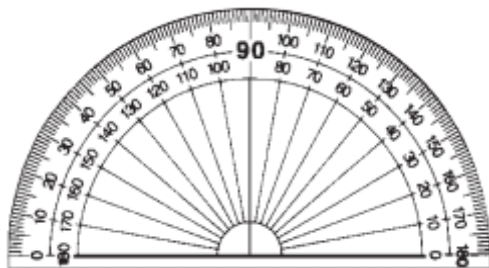
| Diagram                                                                             | Name of the angle                    | Vertex | Arms of an angle |
|-------------------------------------------------------------------------------------|--------------------------------------|--------|------------------|
|  | ' $\angle PQR$ ' or ' $\angle RQP$ ' | Q      | QP and QR        |
|  |                                      |        |                  |
|  |                                      |        |                  |

**Answer:**

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| Diagram                                                                                 | Name of the angle                  | Vertex | Arms of the angle |
|-----------------------------------------------------------------------------------------|------------------------------------|--------|-------------------|
| * (1)  | $\angle PQR$<br>or<br>$\angle RQP$ | Q      | QP<br>and<br>QR   |
| * (2)  | $\angle LMN$<br>or<br>$\angle NML$ | M      | ML<br>and<br>MN   |
| * (3)  | $\angle SUT$<br>or<br>$\angle TUS$ | U      | US<br>and<br>UT   |
| (4)   | $\angle ABC$<br>or<br>$\angle CBA$ | B      | BA<br>and<br>BC   |
| (5)  | $\angle SPR$<br>or<br>$\angle RPS$ | P      | PS<br>and<br>PR   |
| (6)  | $\angle ADC$<br>or<br>$\angle CDA$ | D      | AD<br>and<br>DC   |

The protractor



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A protractor is used to measure an angle and also to draw an angle according to a given measure.

The picture opposite shows a protractor.

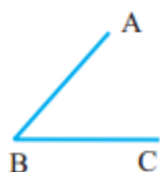
A protractor is semi-circular in shape.

The semi-circular edge of a protractor is divided into 180 equal parts. Each part is 'one degree'. 'One degree' is written as '1°'.

The divisions on a protractor, i.e., the degrees can be marked in two ways. The divisions 0, 10, 20, 30,...180 are marked anticlockwise or from right to left; the divisions 0, 10, 20, 30,...180 are also marked clockwise, or serially from left to right.

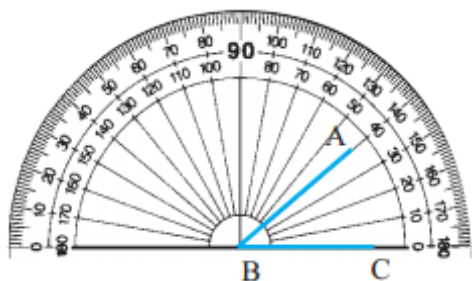
The centre of the circle of which the protractor is a half part, is called the centre of the protractor. A diameter of that circle is the baseline or line of reference of the protractor.

Measuring angles



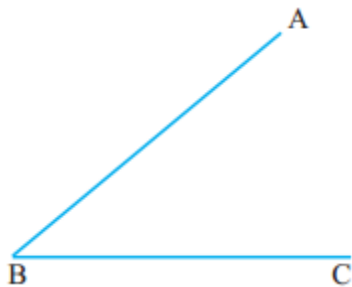
Observe how to measure  $\angle ABC$  given alongside, using a protractor.

1. First, put the centre of the protractor on the vertex B of the angle. Place the baseline of the protractor exactly on arm BC. The arms of the angle do not reach the divisions on the protractor.

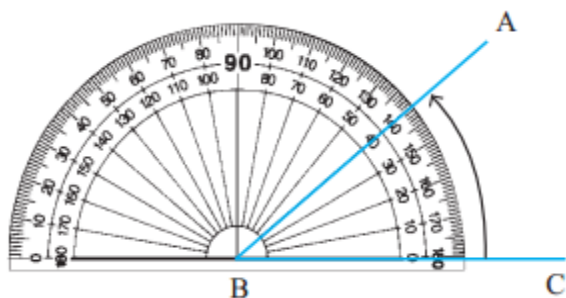


2. At such times, set the protractor aside and extend the arms of the angle. Extending the arms of the angle does not change the measure of the angle.

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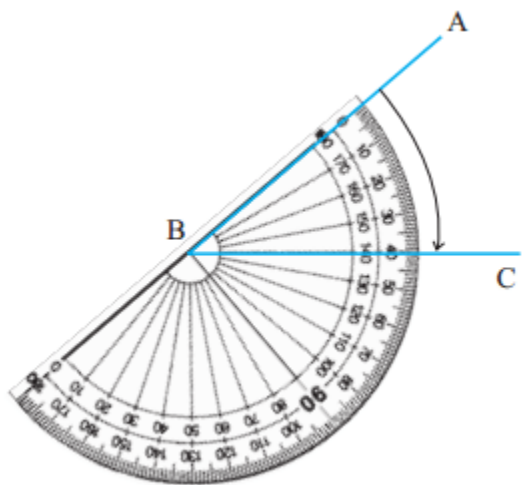


3. The angle is measured starting from the zero on that side of the vertex on which the arm of the angle lies. Here, the arm BC is on the right of the vertex B. Therefore, count the divisions starting from the 0 on the right. See which mark falls on arm BA. Read the number on that mark. This number is the measure of the angle.



The measure of  $\angle ABC$  is  $40^\circ$ .

We can measure the same  $\angle ABC$  by positioning the protractor differently.

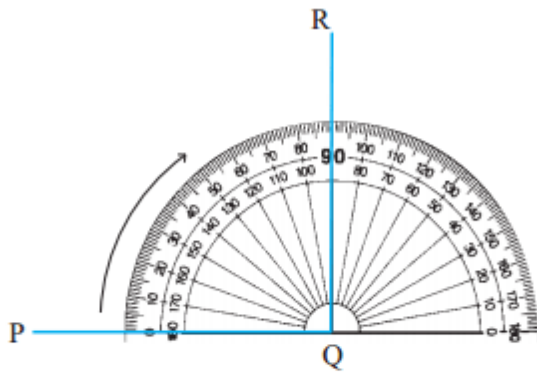


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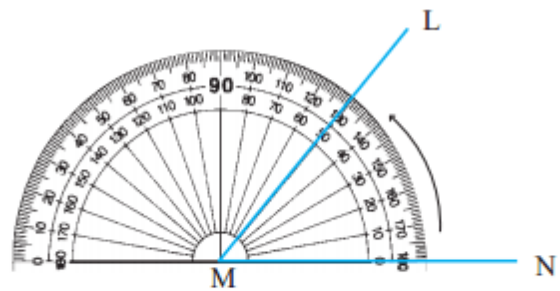
1. First put the centre point of the protractor on vertex B of the angle. Align the baseline of the protractor with arm BA.
2. Find the 0 mark on the side of BA. Count the marks starting from the 0 on the side of point A. See which mark falls on arm BC. Read the number at that point.

Observe that here, too, the measure of  $\angle ABC$  is  $40^\circ$ .

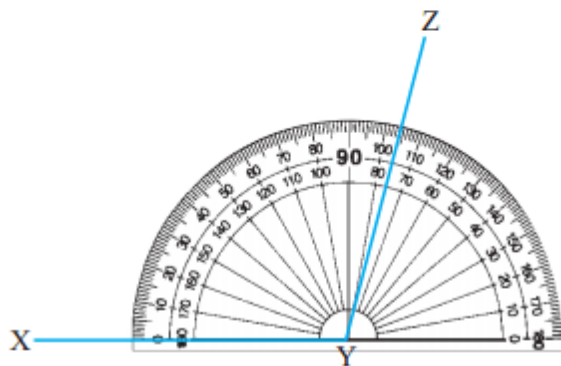
See how the angles given below have been measured with the help of a protractor.



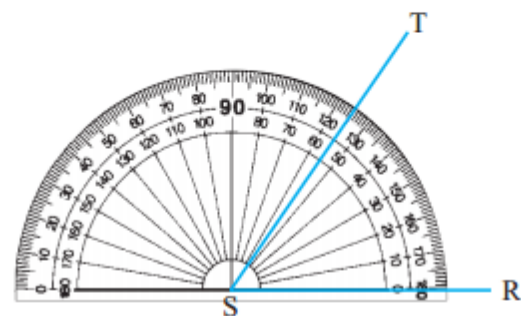
Measure of  $\angle PQR$  is:  $90^\circ$



Measure of  $\angle LMN$  is:  $50^\circ$



Measure of  $\angle XYZ$  is:  $105^\circ$



Measure of  $\angle RST$  is:  $55^\circ$

### Additional Important Questions and Answers

#### Question 1.

Observing the adjacent figure, answer the following questions. Write the name of (1) all angles (2) Vertex of the angles (3) arms of the angles.

**Solution:**

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(1)  $\angle XOY$ ,  $\angle YOZ$ ,  $\angle XOZ$

(2) Vertex of the angles is 'O'

(3) arms of  $\angle XOY$  are OX and OY

arms of  $\angle YOZ$  are OY and OZ

arms of  $\angle XOZ$  are OX and OZ



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- Chapter 1- Roman Numerals (Problem Set 1)
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- Chapter 2- Number Work (Problem Set 3)
- Chapter 2- Number Work (Problem Set 4)
- Chapter 2- Number Work (Problem Set 5)
- Chapter 2- Number Work (Problem Set 6)
- Chapter 3- Addition and Subtraction (Problem Set 7)
- Chapter 3- Addition and Subtraction (Problem Set 8)
- Chapter 3- Addition and Subtraction (Problem Set 9)
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- Chapter 3- Addition and Subtraction (Problem Set 11)
- Chapter 3- Addition and Subtraction (Problem Set 12)
- Chapter 3- Addition and Subtraction (Problem Set 13)
- Chapter 4- Multiplication and Division (Problem Set 14)
- Chapter 4- Multiplication and Division (Problem Set 15)
- Chapter 4- Multiplication and Division (Problem Set 16)
- Chapter 5- Fractions (Problem Set 17)
- Chapter 5- Fractions (Problem Set 18)
- Chapter 5- Fractions (Problem Set 19)
- Chapter 5- Fractions (Problem Set 20)
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- Chapter 5- Fractions (Problem Set 22)
- Chapter 5- Fractions (Problem Set 23)
- Chapter 6- Angles (Problem Set 24)
- Chapter 6- Angles (Problem Set 25)
- Chapter 6- Angles (Problem Set 26)
- Chapter 6- Angles (Problem Set 27)
- Chapter 7- Circles (Problem Set 28)
- Chapter 7- Circles (Problem Set 29)
- Chapter 7- Circles (Problem Set 30)
- Chapter 7- Circles (Problem Set 31)
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- Chapter 8- Multiples and Factors (Problem Set 35)
- Chapter 9- Decimal Fractions (Problem Set 36)
- Chapter 9- Decimal Fractions (Problem Set 37)
- Chapter 9- Decimal Fractions (Problem Set 38)
- Chapter 9- Decimal Fractions (Problem Set 39)
- Chapter 9- Decimal Fractions (Problem Set 40)
- Chapter 9- Decimal Fractions (Problem Set 41)
- Chapter 9- Decimal Fractions (Problem Set 42)
- Chapter 10- Measuring Time (Problem Set 43)

## **Part 2.**

- Chapter 8- Multiples and Factors (Problem Set 32)
- Chapter 8- Multiples and Factors (Problem Set 33)
- Chapter 10- Measuring Time (Problem Set 44)
- Chapter 10- Measuring Time (Problem Set 45)
- Chapter 11- Problems on Measurement (Problem Set 46)

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- Chapter 11- Problems on Measurement (Problem Set 47)
- Chapter 12- Perimeter and Area (Problem Set 48)
- Chapter 12- Perimeter and Area (Problem Set 49)
- Chapter 12- Perimeter and Area (Problem Set 50)
- Chapter 13- Three Dimensional Objects and Nets (Problem Set 51)
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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?

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