

Maharashtra Board Solutions Class 6-Maths (Practice Set 37): Chapter 16- Quadrilaterals



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Maharashtra Board Solutions Class 6-Maths (Practice Set 37): Chapter 16- Quadrilaterals

Class 6: Maths Chapter 16 solutions. Complete Class 6 Maths Chapter 16 Notes.

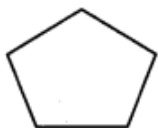
Maharashtra Board Solutions Class 6-Maths (Practice Set 37): Chapter 16- Quadrilaterals

Maharashtra Board 6th Maths Chapter 16, Class 6 Maths Chapter 16 solutions

Question 1.

Observe the figures below and find out their names:

i.



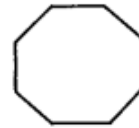
ii.



iii.



iv.



Solution:

i. Pentagon (5 sides)

ii. Hexagon (6 sides)

iii. Heptagon (7 sides)

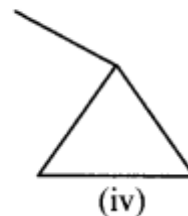
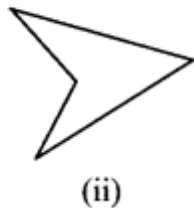
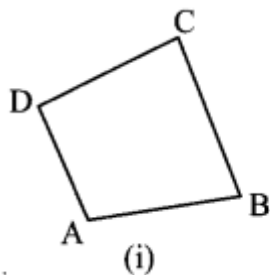
iv. Octagon (8 sides)

Questions and Activities

Question 1.

Observe the figures given below and say which of them are quadrilaterals. (Textbook pg. no. 81)

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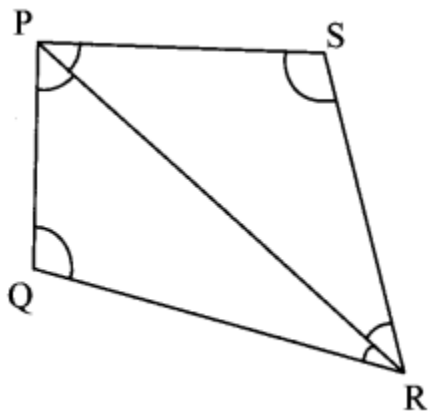
Solution:

Is a quadrilateral: (i)

Question 2.

Draw a quadrilateral. Draw one diagonal of this quadrilateral and divided it into two triangles. Measures all the angles in the figure. Is the sum of the measures of the four angles of the quadrilateral equal to the sum of the measures of the six angles of the two triangles? Verity that this is so with other quadrilaterals. (Textbook pg. no. 84)

Solution:



$$m\angle PQR = 104^\circ$$

$$m\angle QRP = 26^\circ$$

$$m\angle RPQ = 50^\circ$$

$$m\angle PRS = 34^\circ$$

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$$m\angle RSP = 106^\circ$$

$$m\angle SPR = 40^\circ$$

$\therefore$ Sum of the measures of the angles of quadrilateral = $m\angle PQR + m\angle QRP + m\angle RPQ + m\angle PRS + m\angle RSP + m\angle SPR$

$$= 104^\circ + 26^\circ + 50^\circ + 34^\circ + 106^\circ + 40^\circ$$

$$= 360^\circ$$

Also, we observe that

Sum of the measures of the angles of quadrilateral = Sum of the measures of angles of the two triangles (PQR and PRS)

$$= (104^\circ + 26^\circ + 50^\circ) + (34^\circ + 106^\circ + 40^\circ)$$

$$= 180^\circ + 180^\circ$$

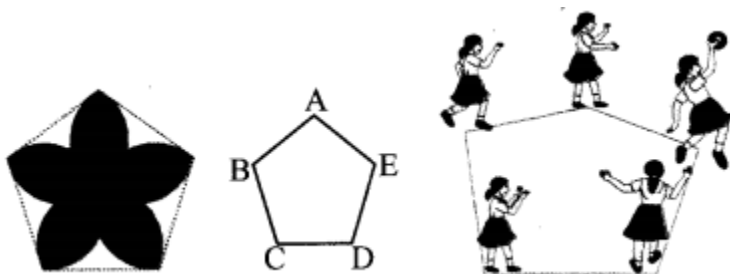
$$= 360^\circ$$

[Note: Students should draw different quadrilaterals and verify the property.]

Question 3.

For the pentagon shown in the figure below, answer the following: (Textbook pg. no. 84)

1. Write the names of the five vertices of the pentagon.
2. Name the sides of the pentagon.
3. Name the angles of the pentagon.
4. See if you can sometimes find players on a field forming a pentagon.



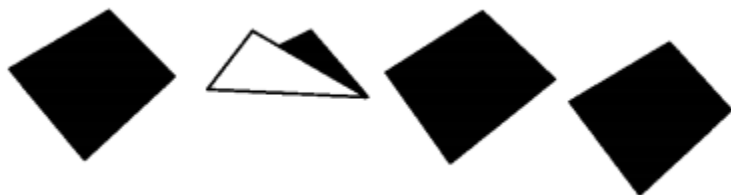
Solution:

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1. The vertices of the pentagon are points A, B, C, D and E.
2. The sides of the pentagon are segments AB, BC, CD, DE and EA.
3. The angles of the pentagon are $\angle ABC$, $\angle BCD$, $\angle CDE$, $\angle DEA$ and $\angle EAB$.
4. The players shown in the above figure form a pentagon. The players are standing on the vertices of

Question 4.

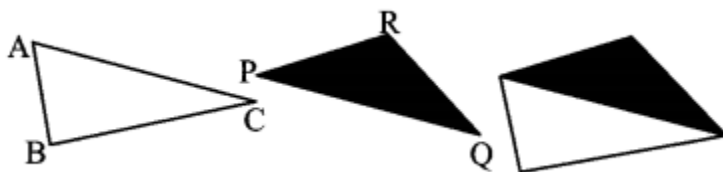
Cut out a paper in the shape of a quadrilateral. Make folds in it that join the vertices of opposite angles. What can these folds be called? (Textbook pg. no. 83)

**Solution:**

The folds are called diagonals of the quadrilateral.

Question 5.

Take two triangular pieces of paper such that one side of one triangle is equal to one side of the other. Let us suppose that in $\triangle ABC$ and $\triangle PQR$, sides AC and PQ are the equal sides. Join the triangles so that their equal sides lie side by side. What figure do we get? (Textbook pg. no. 83)

**Solution:**

If we place the triangles together such that the equal sides overlap, the two triangles form a quadrilateral.

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- Chapter 3- Integers (Practice Set 7)
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- Chapter 4- Operations on Fractions (Practice Set 10)
- Chapter 4- Operations on Fractions (Practice Set 11)
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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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