

Maharashtra Board Solutions Class 8-Maths (Practice Set 8.1): Chapter 8- Quadrilateral: Constructions and Types



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Maharashtra Board Solutions Class 8-Maths (Practice Set 8.1): Chapter 8- Quadrilateral: Constructions and Types

Class 8: Maths Chapter 8 solutions. Complete Class 8 Maths Chapter 8 Notes.

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Maharashtra Board 8th Maths Chapter 8, Class 8 Maths Chapter 8 solutions

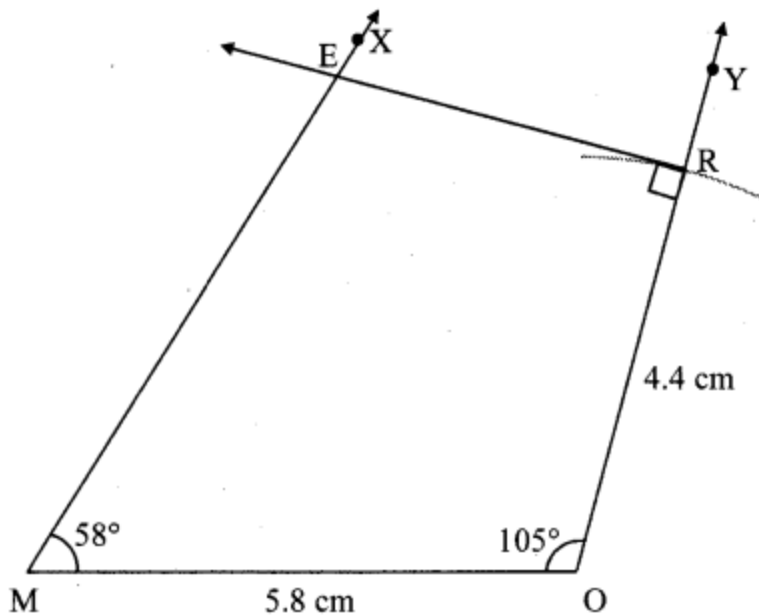
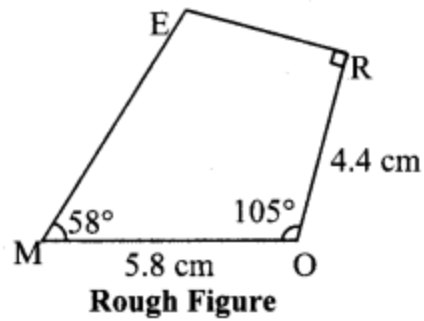
Construct the following quadrilaterals of given measures.

Question 1.

In $\triangle MORE$, $l(MO) = 5.8$ cm, $l(OR) = 4.4$ cm, $m\angle M = 58^\circ$, $m\angle O = 105^\circ$, $m\angle R = 90^\circ$.

Solution:

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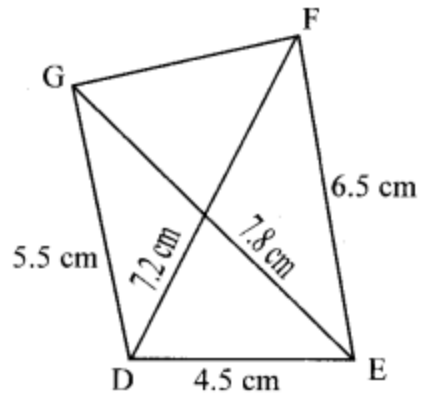


Question 2.

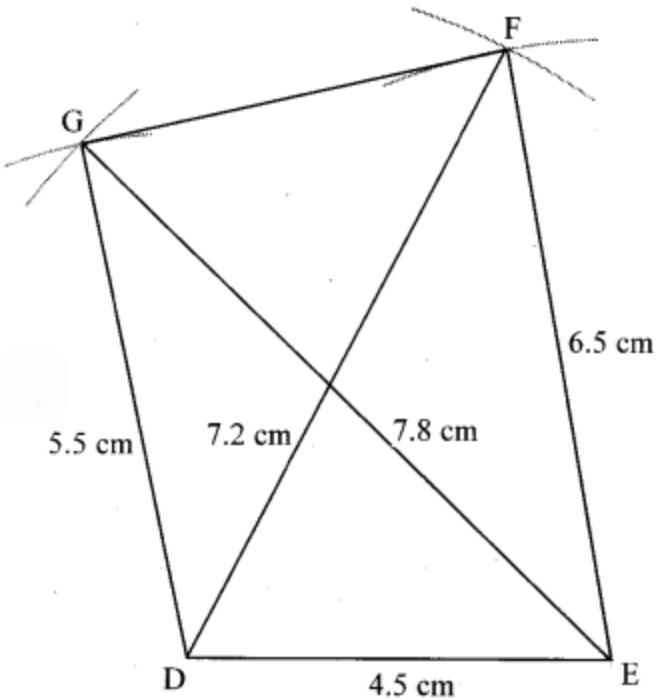
Construct $\triangle DEFG$ such that $l(DE) = 4.5$ cm, $l(EF) = 6.5$ cm, $l(DG) = 5.5$ cm, $l(DF) = 7.2$ cm, $l(EG) = 7.8$ cm.

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Rough Figure

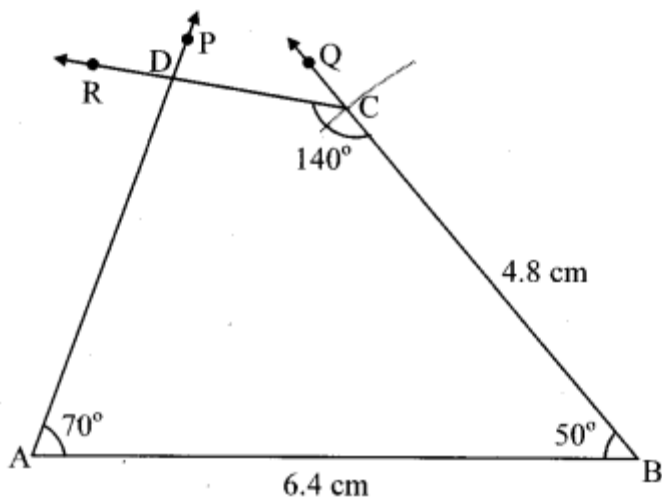
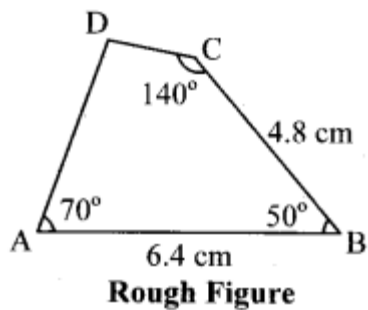


Question 3.

In $\triangle ABC$, $l(AB) = 6.4$ cm, $l(BC) = 4.8$ cm, $m\angle A = 70^\circ$, $m\angle B = 50^\circ$, $m\angle C = 140^\circ$.

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Question 4.

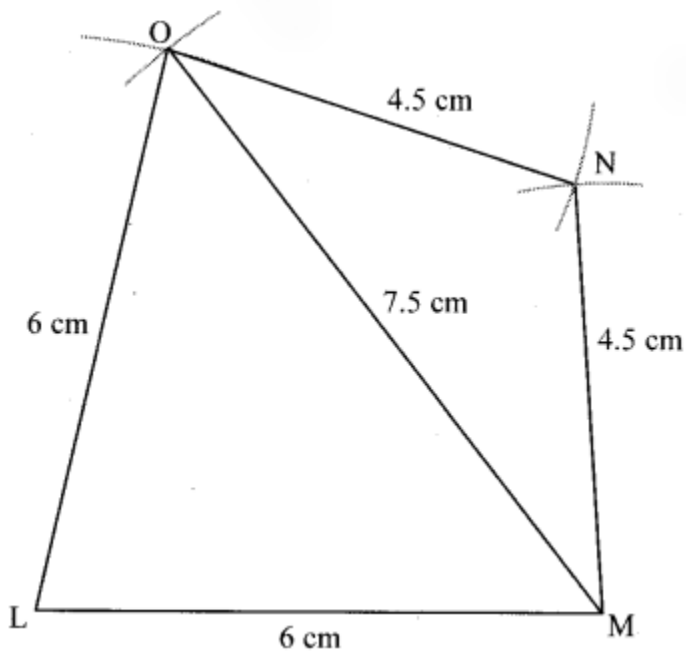
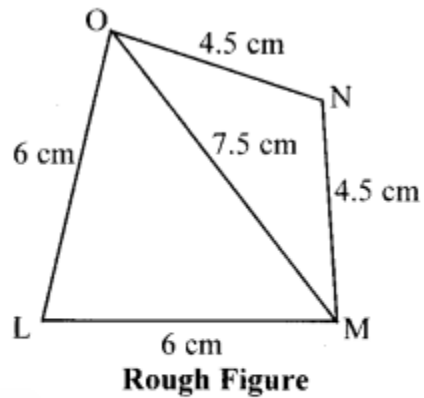
Construct $\square LMNO$ such that

$l(LM) = l(LO) = 6 \text{ cm},$

$l(ON) = l(NM) = 4.5 \text{ cm}, l(OM) = 7.5 \text{ cm}.$

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Intext Questions and Activities

Question 1.

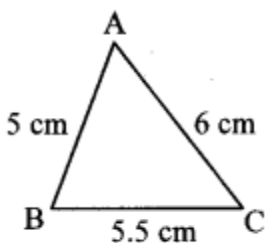
Construction of a triangle:

Construct the triangles with given measures. (Textbook pg. no. 41)

i. $\triangle ABC$: $l(AB) = 5\text{ cm}$, $l(BC) = 5.5$, $l(AC) = 6\text{ cm}$.

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Rough Figure

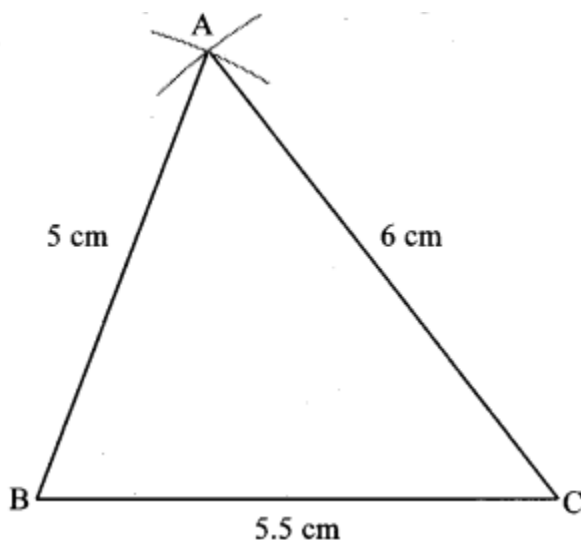
Steps of construction:

Step 1 : As shown in the rough figure, draw seg BC of length 5.5 cm as the base.

Step 2 : By taking a distance of 5 cm on the compass and placing the metal tip of the compass on point B, draw an arc on one side of BC.

Step 3 : By taking a distance 6 cm on the compass and placing the metal tip of the compass on point C and draw an arc such that it intersects the previous arc. Name the point as A.

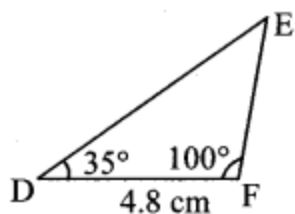
Step 4 : Draw segments AB and AC to get the triangle. $\triangle ABC$ is the required triangle.



ii. $\triangle DEF$: $m\angle D = 35^\circ$, $m\angle F = 100^\circ$, $l(DF) = 4.8$ cm.

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Rough Figure

Steps of construction:

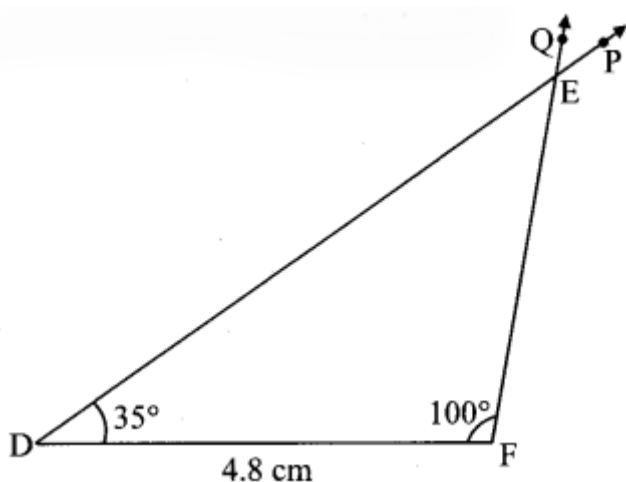
Step 1 : As shown in the rough figure, draw seg DF of length 4.8 cm as the base.

Step 2 : Placing the centre of the protractor at point D, mark point P such that $m\angle PDF = 35^\circ$.

Step 3 : Placing the centre of the protractor at point F, mark point Q such that $m\angle QFD = 100^\circ$.

Step 4 : Draw ray DP and ray FQ. Name their point of intersection as E.

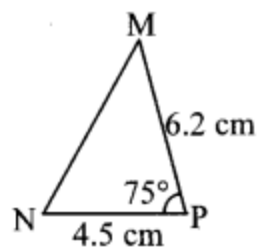
$\triangle DEF$ is required triangle.



iii. $\triangle MNP$: $l(MP) = 6.2$ cm, $l(NP) = 4.5$ cm, $m\angle P = 75^\circ$.

Solution:

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Rough Figure

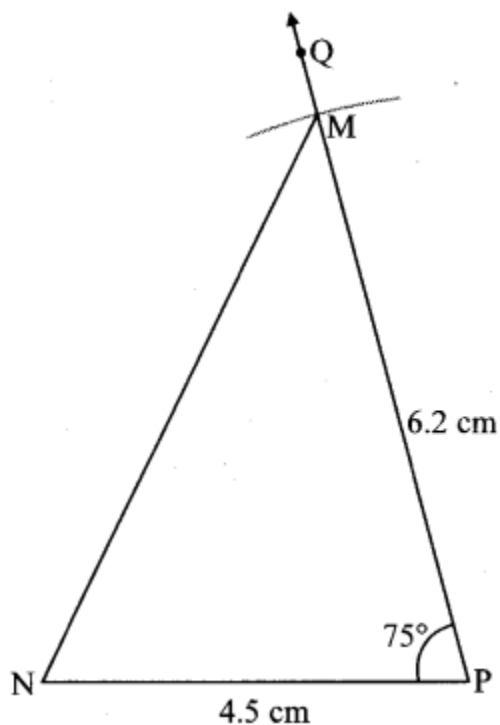
Steps of construction:

Step 1 : As shown in the rough figure, draw seg PN of length 4.5 cm as the base.

Step 2 : Placing the centre of the protractor at point P, mark point Q such that $m\angle QPN = 75^\circ$.

Step 3 : By taking a distance of 6.2 cm on the compass and placing the metal tip at point P, draw an arc on ray PQ. Name the point as M.

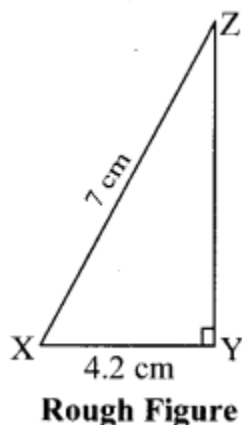
Step 4 : Draw seg MN to get the triangle. $\triangle MNP$ is the required triangle.



iv. $\triangle XYZ$: $m\angle Y = 90^\circ$, $l(XY) = 4.2$ cm, $l(XZ) = 7$ cm.

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Solution:



Steps of construction:

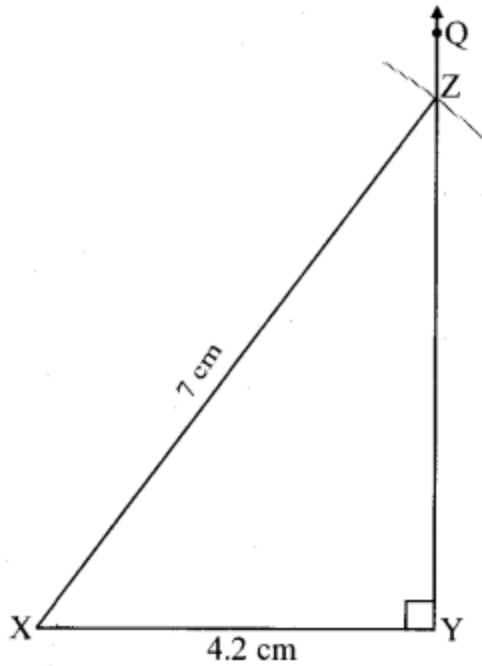
Step 1 : As shown in the rough figure, draw seg XY of 4.2 cm as the base.

Step 2 : Placing the centre of the protractor at point Y, mark point Q such that $m\angle QYX = 90^\circ$.

Step 3 : By taking a distance of 7 cm on the compass and placing the metal tip on point X, draw an arc on ray YQ. Name the point as Z.

Step 4 : Draw seg XZ to get the triangle. $\triangle XYZ$ is the required triangle.

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- Chapter 7- Variation (Practice Set 7.1)

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- Chapter 15- Area (Practice Set 15.6)
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- Chapter 16- Surface Area and Volume (Practice Set 16.3)
- Chapter 17- Factorisation of Algebraic Expressions (Practice Set 17.1)
- Chapter 17- Factorisation of Algebraic Expressions (Practice Set 17.2)

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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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