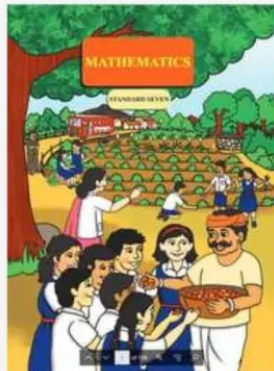


Maharashtra Board Solutions Class 7-Maths

(Practice Set 4): Chapter 1- Geometrical Constructions

BOOK SOLUTIONS
CLASS 7
MATHS

CHAPTER 1
Geometrical Constructions





Maharashtra Board Solutions→

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

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Class 7: Maths Chapter 1 solutions. Complete Class 7 Maths Chapter 1 Notes.

Maharashtra Board Solutions Class 7-Maths (Practice Set 4): Chapter 1- Geometrical Constructions

Maharashtra Board 7th Maths Chapter 1, Class 7 Maths Chapter 1 solutions

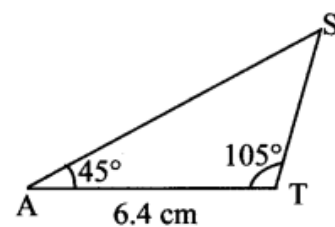
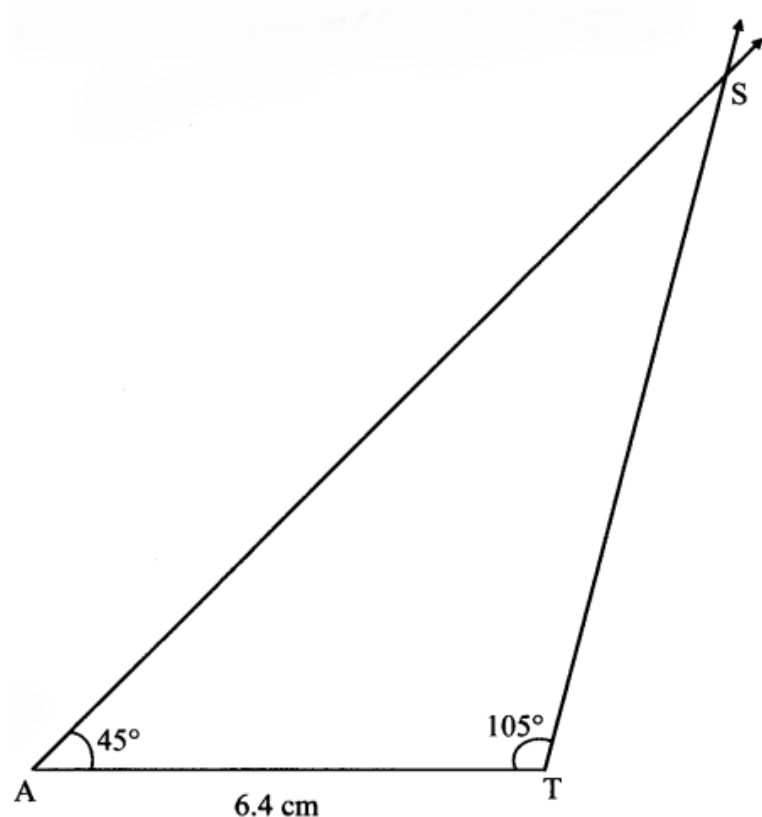
Construct triangles of the measures given below:

Question 1.

In $\triangle SAT$, $l(AT) = 6.4$ cm, $m\angle A = 45^\circ$, $m\angle T = 105^\circ$.

Solution:

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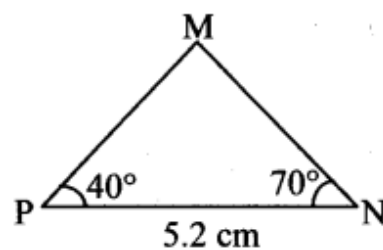
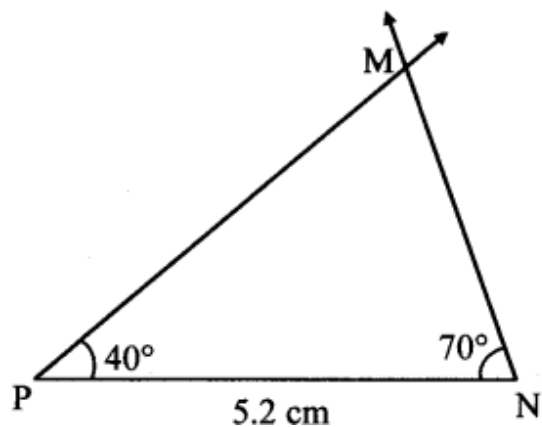


Rough Figure

Question 2.

In $\triangle MNP$, $l(NP) = 5.2$ cm, $m\angle N = 70^\circ$, $m\angle P = 40^\circ$

Solution:



Rough Figure

Question 3.

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In $\triangle EFG$, $l(EG) = 6 \text{ cm}$, $m\angle F = 65^\circ$, $m\angle G = 45^\circ$.

Solution:

In $\triangle EFG$,

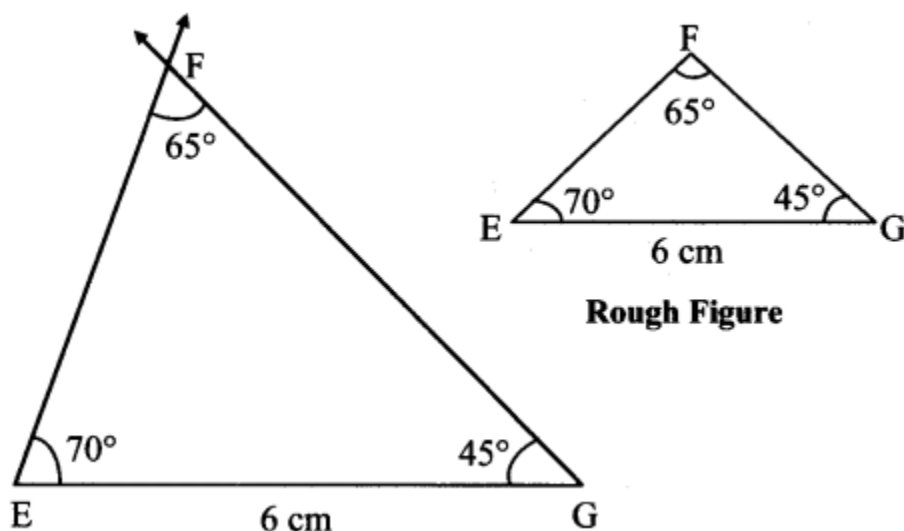
$m\angle E + m\angle F + m\angle G = 180^\circ$...(sum of measures of angles of a triangle)

$$m\angle E + 65^\circ + 45^\circ = 180^\circ$$

$$m\angle E + 110^\circ = 180^\circ$$

$$m\angle E = 180^\circ - 110^\circ$$

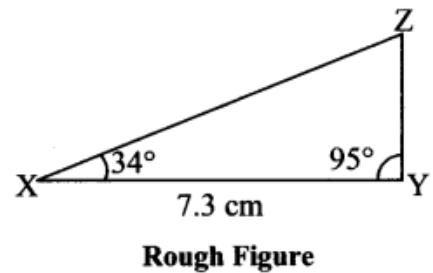
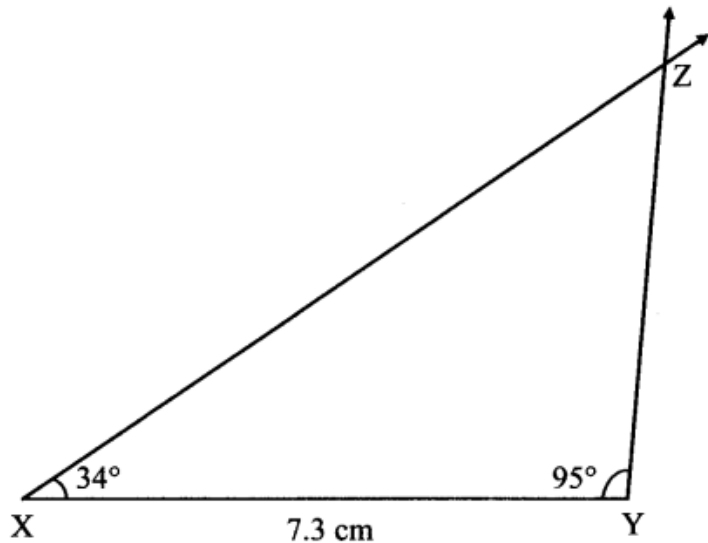
$$m\angle E = 70^\circ$$



Question 4.

In $\triangle XYZ$, $l(XY) = 7.3 \text{ cm}$, $m\angle X = 34^\circ$, $m\angle Y = 95^\circ$.

Solution:



Intext Questions and Activities

Question 1.

In $\triangle ABC$, $m\angle A = 60^\circ$, $m\angle B = 40^\circ$, $l(AC) = 6$ cm. (Textbook pg. no. 5)

1. Can you draw $\triangle ABC$?
2. What further information is required before it can be drawn?
3. Which property can be used to get it?
4. Draw the rough figure to find out.

Solution:

1. $\triangle ABC$ cannot be drawn using the given information.

Seg AC is included inside the angles $\angle A$ and $\angle C$. Since measure of $\angle C$ is not known, the triangle cannot be drawn.

2. To draw the triangle, measure of $\angle C$ is required.
3. The property of sum of the measures of the angles of a triangle can be used to find out $m\angle C$.
4. In $\triangle ABC$,

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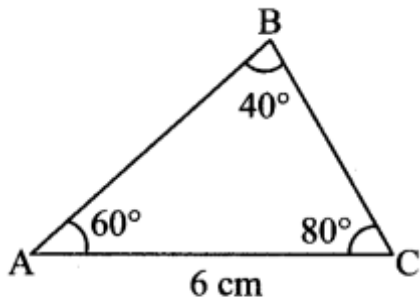
$$m\angle A + m\angle B + m\angle C = 180^\circ$$

$$\therefore 60^\circ + 40^\circ + m\angle C = 180^\circ$$

$$\therefore 100^\circ + m\angle C = 180^\circ$$

$$m\angle C = 180^\circ - 100^\circ$$

$$\therefore m\angle C = 80^\circ$$



Rough Figure



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- Chapter 3- HCF and LCM (Practice Set 13)
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- Chapter 4- Angles and Pairs of Angles (Practice Set 17)
- Chapter 4- Angles and Pairs of Angles (Practice Set 18)
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- Chapter 4- Angles and Pairs of Angles (Practice Set 20)
- Chapter 4- Angles and Pairs of Angles (Practice Set 21)

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- Chapter 5- Operations on Rational Numbers (Practice Set 22)
- Chapter 5- Operations on Rational Numbers (Practice Set 23)
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- Chapter 6- Indices (Practice Set 29)
- Chapter 6- Indices (Practice Set 30)
- Chapter 7- Joint Bar Graph (Practice Set 31)
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- Chapter 8- Algebraic Expressions and Operations on them (Practice Set 35)
- Chapter 8- Algebraic Expressions and Operations on them (Practice Set 36)
- Chapter 9- Direct Proportion and Inverse Proportion (Practice Set 37)
- Chapter 9- Direct Proportion and Inverse Proportion (Practice Set 38)
- Chapter 9- Direct Proportion and Inverse Proportion (Practice Set 39)
- Chapter 10- Bank and Simple Interest (Practice Set 40)
- Chapter 10- Bank and Simple Interest (Practice Set 41)
- Chapter 11- Circle (Practice Set 42)

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- Chapter 11- Circle (Practice Set 43)
- Chapter 12- Perimeter and Area (Practice Set 44)
- Chapter 12- Perimeter and Area (Practice Set 45)
- Chapter 12- Perimeter and Area (Practice Set 46)
- Chapter 12- Perimeter and Area (Practice Set 47)
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- Chapter 13- Pythagoras Theorem (Practice Set 49)
- Chapter 14- Algebraic Formulae - Expansion of Squares (Practice Set 50)
- Chapter 14- Algebraic Formulae - Expansion of Squares (Practice Set 51)
- Chapter 14- Algebraic Formulae - Expansion of Squares (Practice Set 52)
- Chapter 14- Algebraic Formulae - Expansion of Squares (Practice Set 53)
- Chapter 15- Statistics (Practice Set 54)
- Chapter 14- Statistics (Practice Set 55)

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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.

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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.

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