



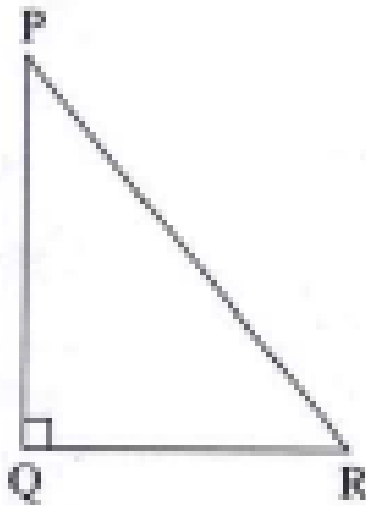
MATHS

BOOKS - NAVNEET PUBLICATION - MAHARASHTRA BOARD

TRIANGLES AND THEIR PROPERTIES

Question Bank

1. Observe the figures given below and write the type of the triangle based on its angles.

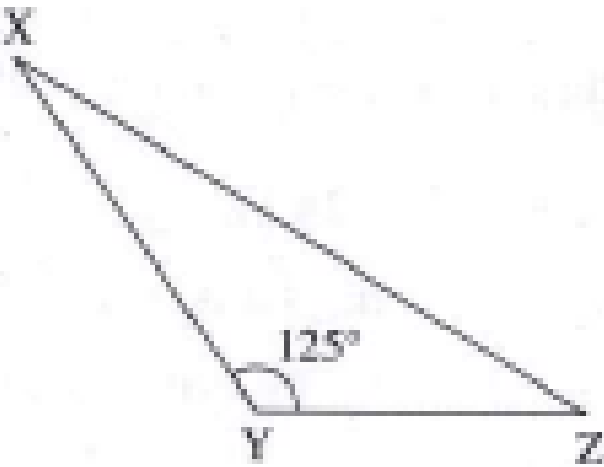


$\triangle PQR$ is a right angled triangle.



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2. Observe the figures given below and write the type of the triangle based on its angles.

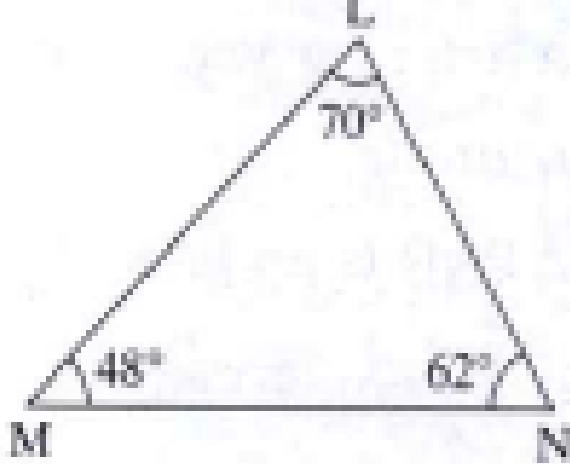


$\triangle XYZ$ is an obtuse angled triangle.



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3. Observe the figures given below and write the type of the triangle based on its angles.

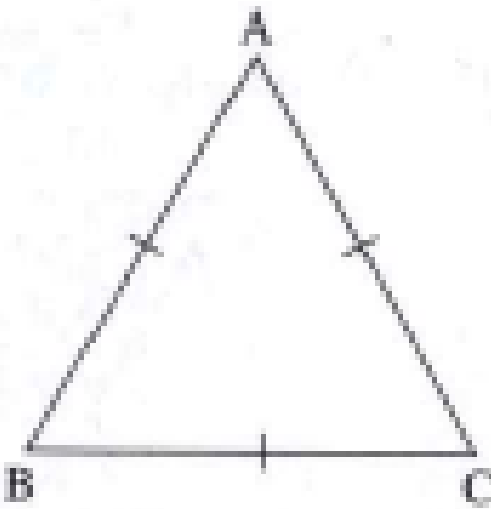


$\triangle LMN$ is an acute angled
triangle.



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4. Observe the figures given below and write the type of the triangle based on its sides.

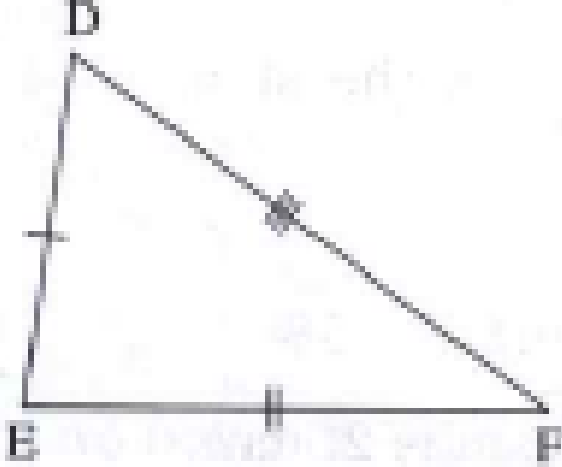


$\triangle ABC$ is an equilateral triangle.



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5. Observe the figures given below and write the type of the triangle based on its sides.

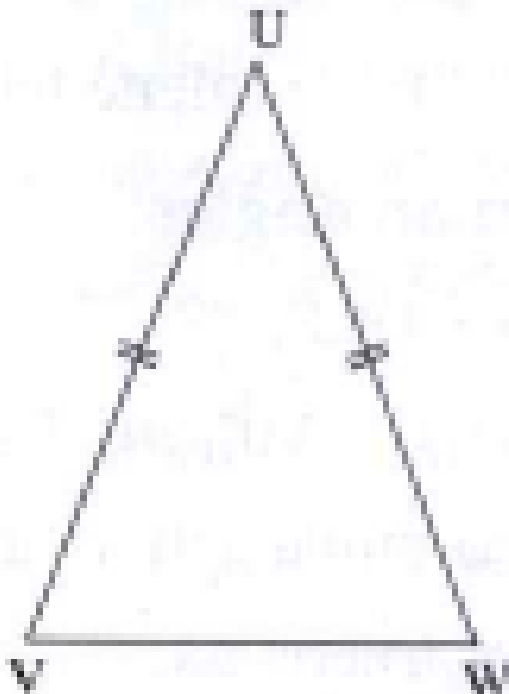


$\triangle DEF$ is a scalene triangle.



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6. Observe the figures given below and write the type of the triangle based on its sides.



$\triangle UVW$ is an isosceles triangle.



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7. As shown in the figure, Avinash is standing near his home. He can choose from two roads to go to school. Which way is shorter? Explain why.



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8. The lengths of the sides of some triangles are given below. Say what type of triangles they are :

3 cm, 4 cm, 5 cm





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9. The lengths of the sides of some triangles are given below. Say what type of triangles they are :

3.4 cm, 3.4 cm, 5 cm



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10. The lengths of the sides of some triangles are given below. Say what type of triangles

they are :

4.3 cm, 4.3 cm, 4.3 cm



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11. The lengths of the sides of some triangles are given below. Say what type of triangles they are :

3.7 cm, 3.4 cm, 4 cm



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12. The lengths of three segments are given for constructing a triangle. Say whether a triangle with these sides can be drawn or not.

Give the reason for your answer :

17 cm, 7 cm, 8cm



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13. The lengths of three segments are given for constructing a triangle. Say whether a triangle with these sides can be drawn or not.

Give the reason for your answer :

7 cm, 24 cm, 25 cm



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14. The lengths of three segments are given for constructing a triangle. Say whether a triangle with these sides can be drawn or not.

Give the reason for your answer :

9 cm, 6 cm, 16 cm



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15. Say whether a triangle with given lengths of three segments can be constructed or not :

8.4 cm, 16.4 cm, 4.9 cm



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16. Say whether a triangle with given lengths of three segments can be constructed or not :

20 cm, 21cm, 25 cm



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17. Say whether a triangle with given lengths of three segments can be constructed or not :

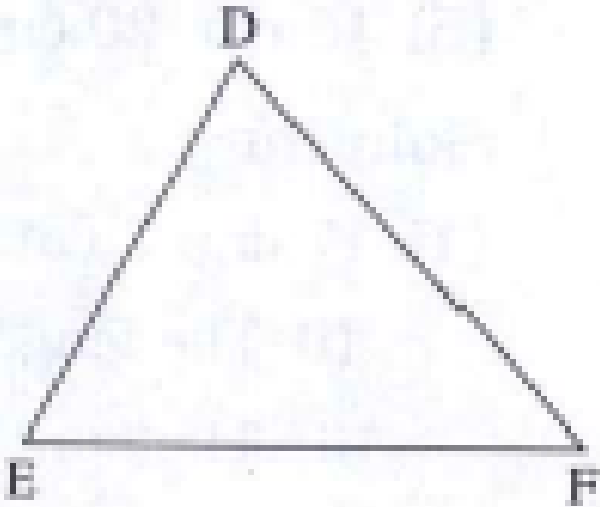
12 cm, 12 cm. 16 cm



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18. Observe the given figure :

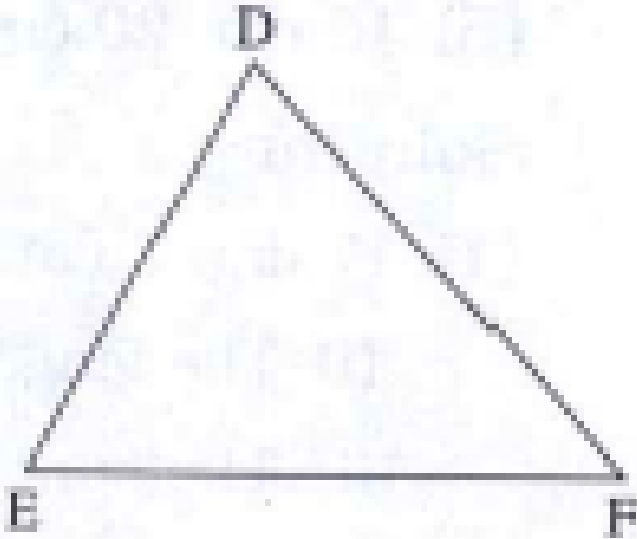
Say the vertices of the triangle.



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19. Observe the given figure :

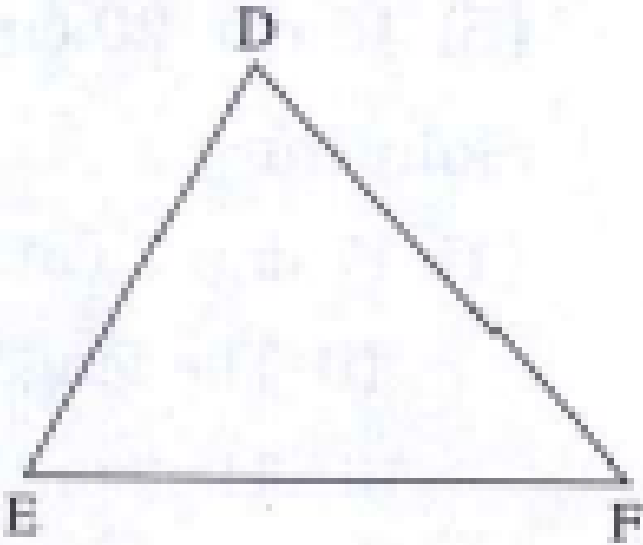
Say the sides of the triangle.



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20. Observe the given figure :

Say the angles of the triangle.



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21. In $\triangle PQR$, $l(PQ) = 4$ cm, $l(QR) = 4$ cm, $l(PR) = 8$ cm. Can you draw this triangle? Why?



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22. In $\triangle ABC$, $m \angle A = m \angle B = 90^\circ$, $m \angle C = 45^\circ$. Is this triangle possible? Why?



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23. Can a triangle have two obtuse angles? Why?



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