MATHS

BOOKS - NAVNEET MATHS (MARATHI ENGLISH)

TRIANGLES AND THEIR PROPERTIES

Question Bank

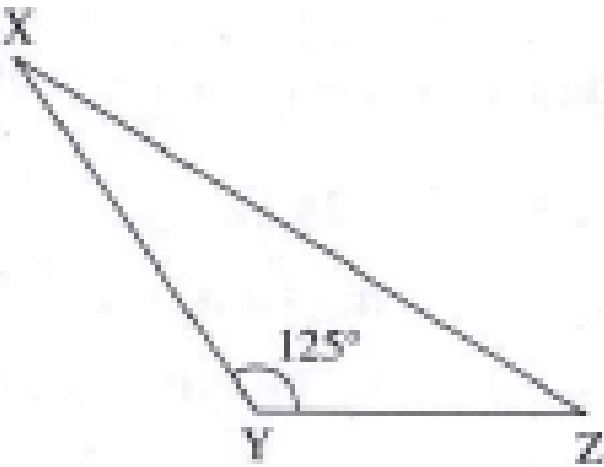**1.** Observe the figures given below and write the type of the triangle based on Its angles.

△ PQR is a right angled triangle.

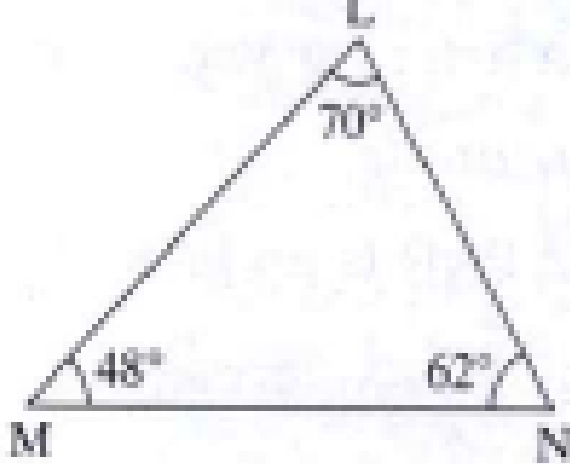**2.** Observe the figures given below and write the type of the triangle based on Its angles.

△ XYZ is ..an obtuse angled triangle.

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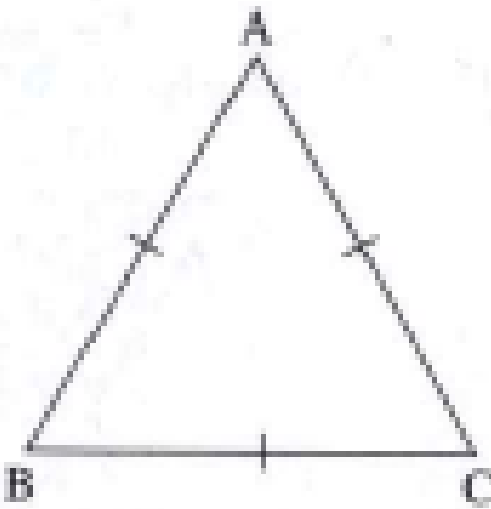**3.** Observe the figures given below and write the type of the triangle based on Its angles.

△ 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.
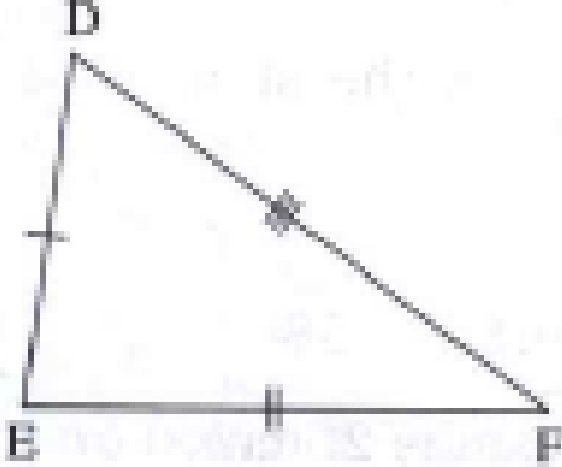
$\triangle$ ABC is an equilateral triangle.

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5. Observe the figures given below and write the type of the triangle based on its sides.
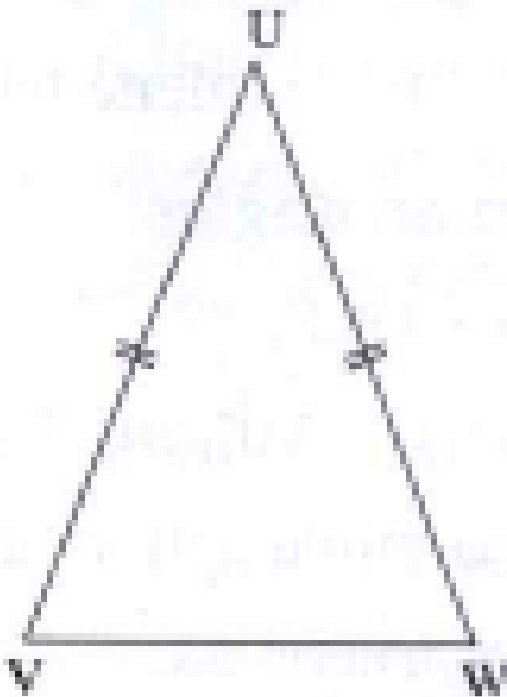
$\triangle$ DEF is ..a.scalene.. triangle.

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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.

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

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

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

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

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

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

15. 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 :

8.4 cm, 16.4 cm, 4.9 cm

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16. 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 :

20 cm, 25 cm, 25 cm

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17. 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 :
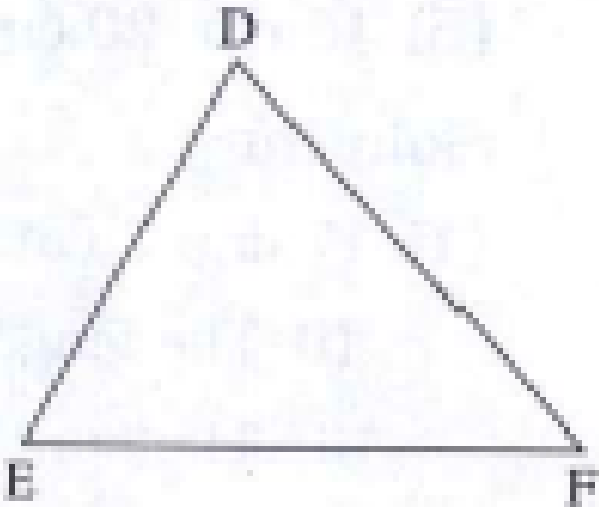
12 cm, 12 cm. 16 cm

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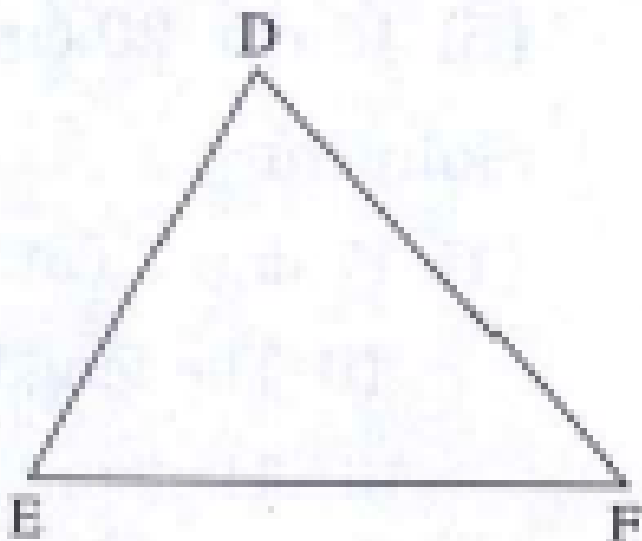
18. Observe the given figure :

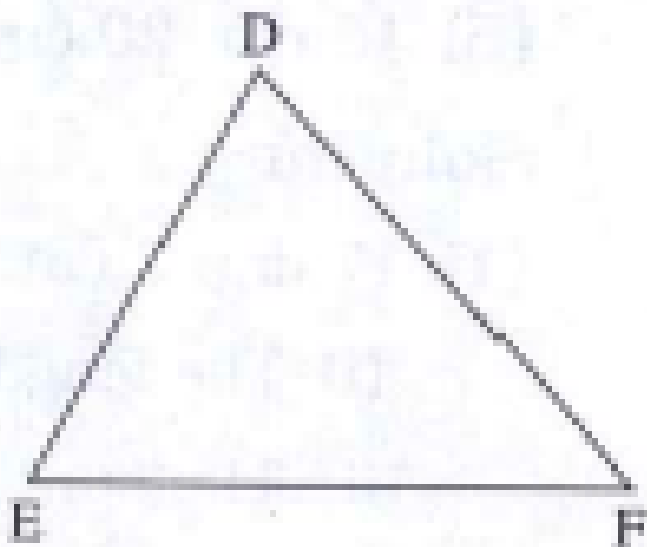Say the vertices of the triangle.

19. Observe the given figure :

Say the sides of the triangle.

20. Observe the given figure :

Say the angles of the triangle.

21. Answer the following question :

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

22. Answer the following question :

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

23. Answer the following question :

Can a triangle have two obtuse angles? Why?