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Advanced Executive Program in Cyber Law, Program in IT Law

Class 6 Mathematics Chapter 5

Exercise 5.6

* कम्प्यूटराइज्ड नोट्स

* फ्री स्टडी मटेरियल

* न्यूनतम शिक्षण शुल्क

* नियमित कक्षाये

Question 1: Name the types of following triangles:

- Triangle with lengths of sides 7 cm, 8 cm and 9 cm.
- ABC with $AB = 8.7$ cm, $AC = 7$ cm and $BC = 6$ cm.
- PQR such that $PQ = QR = PR = 5$ cm.
- DEF with $m\angle D = 90$
- XYZ with $m\angle Y = 90$ and $XY = YZ$
- LMN with $m\angle L = 30$, $m\angle M = 70$ and $m\angle N = 80$.

Answer: (a) Scalene triangle (b) Scalene triangle (c) Equilateral triangle (d) Right-angled triangle
(e) Isosceles right-angled triangle (f) Acute-angled triangle

Question 2: Match the following:

Measure of Triangle

- 3 sides of equal length
- 2 sides of equal length
- All sides are of different length
- 3 acute angles
- 1 right angle
- 1 obtuse angle
- 1 right angle with two sides of equal length

Types of Triangle

- Equilateral
- Isosceles
- Scalene
- Acute angle
- Right angle
- Obtuse angle
- Isosceles right angle

Question 3: Name each of the following triangles in two different ways: (You may judge the nature of angle by observation)

Answer:

- Acute angled triangle and Isosceles triangle
- Right-angled triangle and scalene triangle
- Obtuse-angled triangle and Isosceles triangle
- Right-angled triangle and Isosceles triangle
- Equilateral triangle and acute angled triangle
- Obtuse-angled triangle and scalene triangle

Question 4: Try to construct triangles using match sticks. Some are shown here.

Can you make a triangle with: (a) 3 matchsticks? (b) 4 matchsticks? (c) 5 matchsticks? (d) 6 matchsticks?

(Remember you have to use all the available matchsticks in each case) If you cannot make a triangle, think of reasons for it.

Answer:

- 3 matchsticks

This is an acute angle triangle and it is possible with 3 matchsticks to make a triangle because sum of two sides is greater than third side.

- 4 matchsticks

This is a square, hence with four matchsticks we cannot make triangle.

- 5 matchsticks

This is an acute angle triangle and it is possible to make triangle with five matchsticks, in this case sum of two sides is greater than third side.

- 6 matchsticks

This is an acute angle triangle and it is possible to make a triangle with the help of 6 matchsticks because sum of two sides is greater than third side.