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Advanced Executive Program in Cyber Law, Program in IT Law

Class 6 Mathematics Chapter 5

Exercise 5.5

* कंप्यूटराइज्ड नोट्स

* फ्री स्टडी मटेरियल

* न्यूनतम शिक्षण शुल्क

* नियमित कक्षाये

Question 1: Which of the following are models for perpendicular lines:

- (a) The adjacent edges of a table top.
- (b) The lines of a railway track.
- (c) The line segments forming the letter 'L'.
- (d) The letter V.

Answer: (a) Perpendicular (b) Not perpendicular (c) Perpendicular (d) Not perpendicular

Question 2: Let PQ be the perpendicular to the line segment XY. Let PQ and XY intersect in the point A. What is the measure of $\angle PAY$?

Answer: $\angle PAY = 90$

Question 3: There are two "set-squares" in your box. What are the measures of the angles that are formed at their corners? Do they have any angle measure that is common?

Answer: One set-square has 45, 90, 45 and other set-square has 60, 90, 30. They have 90 as common angle.

Question 4: Study the diagram. The line l is perpendicular to line m.

- (a) Is $CE = EG$?
- (b) Does PE bisect CG?
- (c) Identify any two line segments for which PE is the perpendicular bisector.
- (d) Are these true? (i) $AC > FG$ (ii) $CD = GH$ (iii) $BC < EH$

Answer:

- (a) Yes, both measure 2 units.
- (b) Yes, because $CE = EG$
- (c) DF and CG, BH
- (d) (i) True, (ii) True, (iii) True