

Mathematics

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(Chapter – 5) (Understanding Elementary Shapes)

(Class – VI)

Exercise 5.5

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 1:

- (a) Perpendicular
- (b) Not perpendicular
- (c) Perpendicular
- (d) Not perpendicular

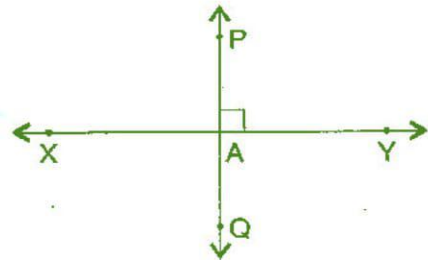
Question 2:

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



Answer 2:

$$\angle PAY = 90^\circ$$



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?

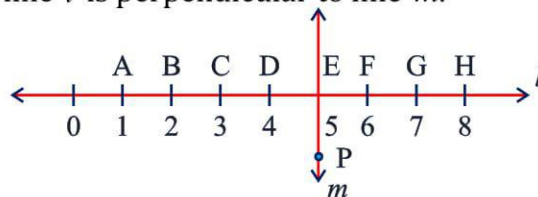


Answer 3:

One set-square has $45^\circ, 90^\circ, 45^\circ$ and other set-square has $60^\circ, 90^\circ, 30^\circ$. 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 4:

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

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