

7. The enrolment in a school during six consecutive years was as follows:
1555, 1670, 1750, 2013, 2540, 2820

Find the mean enrolment of the school for this period.

8. The rainfall (in mm) in a city on 7 days of a certain week was recorded as follows:

Day	Mon	Tue	Wed	Thurs	Fri	Sat	Sun
Rainfall (in mm)	0.0	12.2	2.1	0.0	20.5	5.5	1.0

- (i) Find the range of the rainfall in the above data.
- (ii) Find the mean rainfall for the week.
- (iii) On how many days was the rainfall less than the mean rainfall.

Example 8: In Fig. 6.4, $\angle PRS = \angle QPR + \angle$ _____

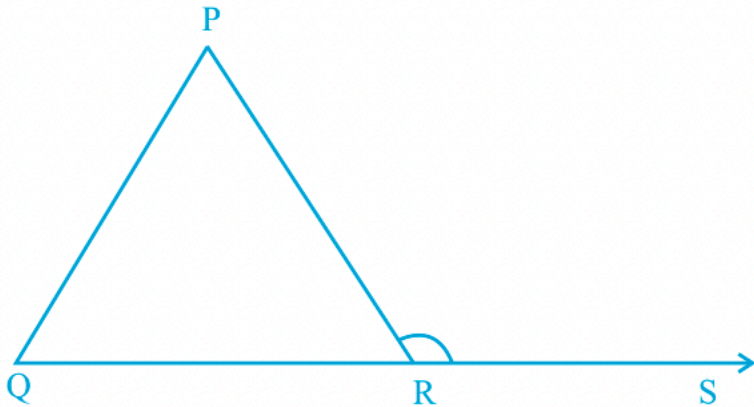


Fig. 6.4

3. In Fig. 6.7, $PQ = PS$. The value of x is

- (a) 35° (b) 45°
(c) 55° (d) 70°

4. In a right-angled triangle, the angles other than the right angle are

- (a) obtuse (b) right
(c) acute (d) straight

5. In an isosceles triangle, one angle is 70° . The other two angles are of

- (i) 55° and 55° (ii) 70° and 40° (iii) any measure

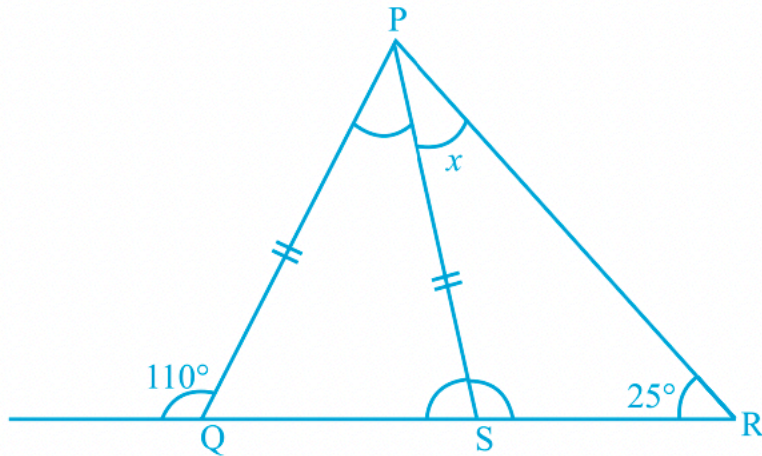


Fig. 6.7

7. Lengths of sides of a triangle are 3 cm, 4 cm and 5 cm. The triangle is
- (a) Obtuse angled triangle (b) Acute-angled triangle
- (c) Right-angled triangle (d) An Isosceles right triangle

8. In Fig. 6.8, $PB = PD$. The value of x is

- (a) 85° (b) 90°
- (c) 25° (d) 35°

9. In $\triangle PQR$,

- (a) $PQ - QR > PR$
- (b) $PQ + QR < PR$
- (c) $PQ - QR < PR$
- (d) $PQ + PR < QR$

10. In $\triangle ABC$,

- (a) $AB + BC > AC$ (b) $AB + BC < AC$
- (c) $AB + AC < BC$ (d) $AC + BC < AB$

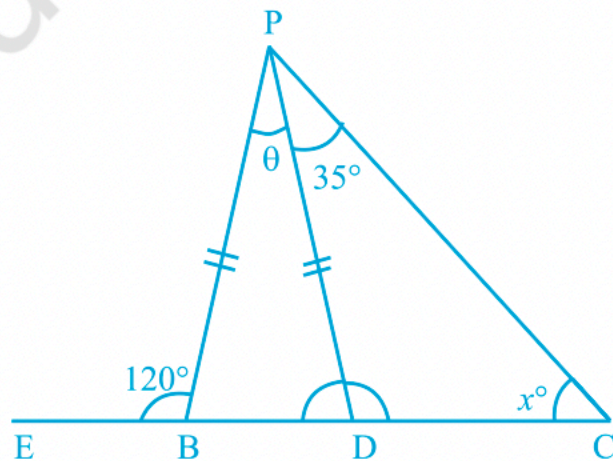


Fig. 6.8

16. The perimeter of the rectangle whose length is 60 cm and a diagonal is 61 cm is

- (a) 120 cm (b) 122 cm (c) 71 cm (d) 142 cm

17. In $\triangle PQR$, if $PQ = QR$ and $\angle Q = 100^\circ$, then $\angle R$ is equal to

- (a) 40° (b) 80° (c) 120° (d) 50°

In questions 50 to 69, fill in the blanks to make the statements true.

- 50.** The _____ triangle always has altitude outside itself.
- 51.** The sum of an exterior angle of a triangle and its adjacent angle is always _____.
- 52.** The longest side of a right angled triangle is called its _____.
- 53.** Median is also called _____ in an equilateral triangle.
- 54.** Measures of each of the angles of an equilateral triangle is _____.
- 55.** In an isosceles triangle, two angles are always _____.
- 56.** In an isosceles triangle, angles opposite to equal sides are _____.
- 57.** If one angle of a triangle is equal to the sum of other two, then the measure of that angle is _____.
- 58.** Every triangle has at least _____ acute angle (s).
- 59.** Two line segments are congruent, if they are of _____ lengths.
- 60.** Two angles are said to be _____, if they have equal measures.
- 61.** Two rectangles are congruent, if they have same _____ and _____.