

**2.** The runs scored in a cricket match by 11 players is as follows:

6, 15, 120, 50, 100, 80, 10, 15, 8, 10, 15

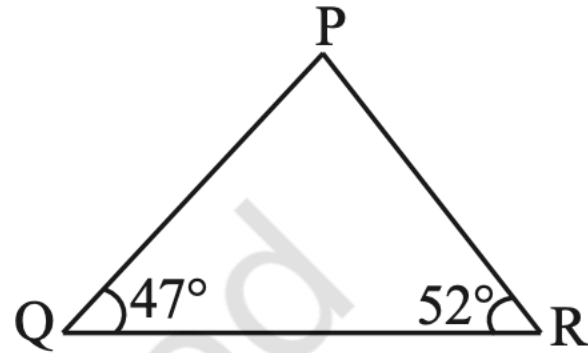
Find the mean, mode and median of this data. Are the three same?

3. Number of children in six different classes are given below. Represent the data on a bar graph.

Class	Fifth	Sixth	Seventh	Eighth	Ninth	Tenth
Number of Children	135	120	95	100	90	80

- (a) How would you choose a scale?
- (b) Answer the following questions:
- Which class has the maximum number of children? And the minimum?
  - Find the ratio of students of class sixth to the students of class eight.

**EXAMPLE 2** In the given figure (Fig 6.18) find  $m\angle P$ .



**Fig 6.18**

**EXAMPLE 3** Is there a triangle whose sides have lengths 10.2 cm, 5.8 cm and 4.5 cm?

**7.** Find the perimeter of the rectangle whose length is 40 cm and a diagonal is 41 cm.

**8.** The diagonals of a rhombus measure 16 cm and 30 cm. Find its perimeter.

**EXAMPLE 3** Convert  $\frac{5}{4}$  to per cent.

**3.** We have a basket full of apples, oranges and mangoes.

If 50% are apples, 30% are oranges, then what per cent are mangoes?



**EXAMPLE 13** Selling price of a toy car is ₹ 540. If the profit made by shopkeeper is 20%, what is the cost price of this toy?



- 7.** (i) Chalk contains calcium, carbon and oxygen in the ratio 10:3:12. Find the percentage of carbon in chalk.
- (ii) If in a stick of chalk, carbon is 3g, what is the weight of the chalk stick?

**11.** If Meena gives an interest of ₹ 45 for one year at 9% rate p.a.. What is the sum she has borrowed?

**EXAMPLE 2** Reduce to standard form:

(i)  $\frac{36}{-24}$

(ii)  $\frac{-3}{-15}$

**9.** Which is greater in each of the following:

(i)  $\frac{2}{3}, \frac{5}{2}$

(ii)  $\frac{-5}{6}, \frac{-4}{3}$

**10.** Write the following rational numbers in ascending order:

(i)  $\frac{-3}{5}, \frac{-2}{5}, \frac{-1}{5}$

(ii)  $\frac{-1}{3}, \frac{-2}{9}, \frac{-4}{3}$

$$\text{(vi)} \quad \frac{-7}{12} \div \left( \frac{-2}{13} \right)$$