RS Aggarwal Solutions for Class 8 Maths Chapter 23 Exercise 23.2: In Chapter 23 of RS Aggarwal Class 8 Maths textbook Exercise 23.2 focuses on pie charts, a graphical representation used to show the proportion of different categories within a whole.

This exercise emphasizes the interpretation and construction of pie charts based on given data. Students learn how to convert raw data into angles for the pie chart, understand the significance of each slice, and analyze the relative sizes of the categories represented.

By solving these problems students gain a practical understanding of how to visually compare different segments of data and make informed conclusions about the distribution of various categories. The exercise helps in developing skills to effectively present and interpret statistical information through visual aids.

RS Aggarwal Solutions for Class 8 Maths Chapter 23 Exercise 23.2 Pie Charts Overview

RS Aggarwal Solutions for Class 8 Maths Chapter 23 Exercise 23.2 provide a detailed overview of pie charts, a key tool for representing data visually. This exercise focuses on teaching students how to construct and interpret pie charts, which display data as slices of a circle, with each slice representing a category's proportion relative to the whole.

The exercise guides students through the process of converting numerical data into angles, which are then used to draw each segment of the pie chart. By working through this exercise students enhance their ability to translate data into a visual format making it easier to compare and interpret statistical information effectively.

RS Aggarwal Solutions for Class 8 Maths Chapter 23 Exercise 23.2 Pie Charts PDF

The PDF link for RS Aggarwal Solutions for Class 8 Maths Chapter 23 Exercise 23.2 Pie Charts is available below.

It covers the step-by-step process of constructing pie charts from given data, calculating the angles for each sector, and analyzing the resulting chart to draw meaningful conclusions.

RS Aggarwal Solutions for Class 8 Maths Chapter 23 Exercise 23.2 Pie Charts PDF

RS Aggarwal Solutions for Class 8 Maths Chapter 23 Exercise 23.2 Pie Charts

Below we have provided RS Aggarwal Solutions for Class 8 Maths Chapter 23 Exercise 23.2 Pie Charts-

OBJECTIVE QUESTIONS

Tick (√) the correct answer in each of the following:

(1) A man's monthly salary is Rs 24000 and his monthly expenses on travel are Rs 2500. The central angle of the sector representing travel expenses in the pie chart would be

Ans: (b) $37\frac{1}{2}^{\circ}$

Solution: Central angle $= \left(\frac{2500}{24000} \times 360\right)^{\circ} = 37\frac{1}{2}^{\circ}$

(2) If 35% of the people residing in a locality are Sikhs then the central angle of the sector representing the Sikh community in the pie chart would be

Ans: (c) 126°

Solution: Central angle $= \left(\frac{35}{100} \times 360\right)^{\circ} = 126^{\circ}$

(3) If in the pie chart representing the number of students opting for different streams of study out of a total strength of 1650 students, the central angle of the sector representing arts students is 48° then what is the number of students who opted for arts stream?

Ans: (a) 220

Solution: Central angle $= \left(\frac{x}{1650} \times 360\right)^{\circ} = 48^{\circ}$

$\Rightarrow 360x = 79200$

$\Rightarrow x = \frac{79200}{360} = 220$

(4) In the pie chart representing the percentages of students having interest in reading various kinds of books, the central angle of the sector representing students reading novels is 81°. What is the percentage of students interested in reading novels?

Ans: (c) $22\frac{1}{2}\%$

Solution: Central angle $= \left(\frac{x}{100} \times 360\right)^{\circ} = 81^{\circ}$

$\Rightarrow 360x = 8100$

$\Rightarrow x = \frac{8100}{360} = 22\frac{1}{2}$

Benefits of RS Aggarwal Solutions for Class 8 Maths Chapter 23 Exercise 23.2 Pie Charts

- **Clear Understanding**: The solutions provide a step-by-step approach to constructing and interpreting pie charts, making it easier for students to grasp the concepts.
- **Enhanced Problem-Solving Skills**: By working through various problems students enhance their skills in calculating angles and proportions, which are crucial for accurately representing data in pie charts.
- **Error Correction**: Detailed solutions help students identify and correct mistakes, reinforcing correct methodologies and improving their overall accuracy.
- **Exam Preparation**: Familiarity with pie charts and their analysis is essential for exams. These solutions prepare students to handle similar questions confidently.
- **Concept Reinforcement**: The exercise reinforces fundamental concepts of data representation and helps solidify students' understanding of pie charts and their practical applications.