

Pie Chart

A. Choose the correct answer:

1. A pie chart is also known as a.

- a) Line graph
- b) Circle graph
- c) Bar graph
- d) Histogram

2. In a pie chart, the total angle at the center of the circle is.

- a) 180°
- b) 270°
- c) 360°
- d) 90°

3. If a sector of a pie chart represents 90° , what fraction of the whole does it represent.

- a) $\frac{1}{2}$
- b) $\frac{1}{4}$
- c) $\frac{1}{3}$
- d) $\frac{1}{5}$

4. A pie chart is mainly used to show.

- a) Comparison between parts of a whole
- b) Changes over time
- c) Location of data
- d) Discrete data

5. If $\frac{1}{5}$ of the total is represented in a pie chart, the central angle will be.

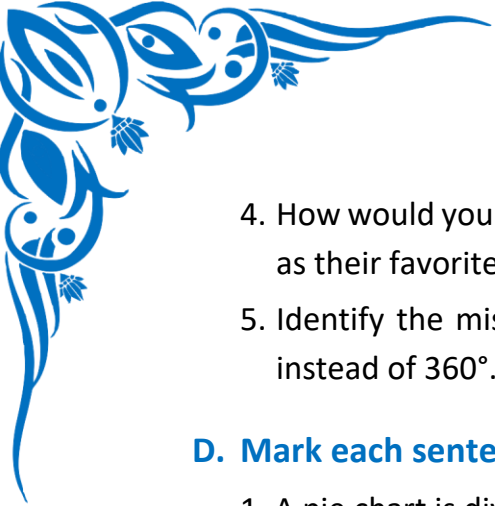
- a) 36°
- b) 72°
- c) 108°
- d) 90°

B. Write the Missing Terms to Complete the Sentences:

1. A pie chart is divided into _____ representing different data categories.
2. In a pie chart, each part is called a _____.
3. A pie chart shows the relationship between a part and the _____.
4. The sum of all central angles in a pie chart is _____ degrees.
5. To find the central angle for a category, multiply the fraction by _____.

C. Figure out the answers to these questions:

1. If 20 students out of 50 like Math, find the angle representing Math in a pie chart.
2. A pie chart has three sectors representing A 120° , B 90° , and C 150° . Which category is the largest?
3. Draw a rough pie chart showing the favorite colors of students Red 30%, Blue 25%, Green 20%, Yellow 25%.



4. How would you calculate the central angle if 15 students out of 60 chose Science as their favorite subject.
5. Identify the mistake if the angles of all sectors in a pie chart add up to 340° instead of 360° .

D. Mark each sentence with a True (✓) or False (X):

1. A pie chart is divided into sectors that represent different parts of the Data ____
2. The central angle corresponding to a data item depends on its value compared to the total ____
3. Pie charts are best suited for representing data changes over time ____
4. A full pie chart covers an angle of 360° ____
5. All sectors of a pie chart must be equal in size ____

E. Challenge yourself with these questions:

1. Find the central angle for a category representing $\frac{1}{3}$ of the total.
2. What should you check first before drawing a pie chart from given data?
3. Write two advantages of using a pie chart for data presentation.
4. If the number of students liking Basketball is 12 out of 48, find the central angle
5. Why should percentages be converted into angles while making a pie chart.