

MONTH : JANUARY

SESSION : 13

CLASS : V

SUBJECT : MATHEMATICS

CHAPTER NUMBER: 21

CHAPTER NAME : DATA HANDLING

SUB-TOPIC : PIE CHART

EXERCISE 21 C

CHANGING YOUR TOMORROW

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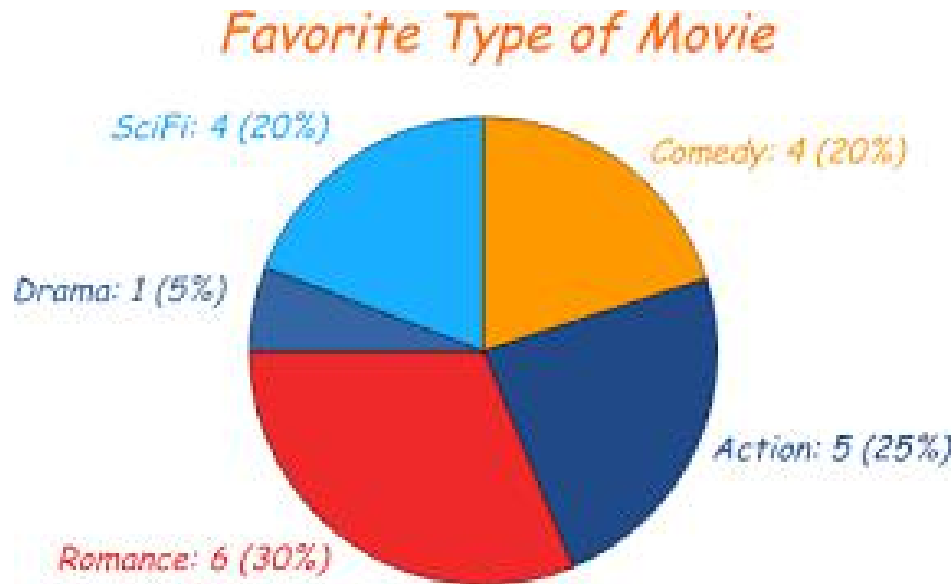
LEARNING OBJECTIVE :

The learners will develop the skills to collect, organise, display, analyse and interpret data.

PIE CHART

Pie charts are circular like a cake which can be divided into slices or pieces . Each slice shows a fractions of data.

It is an interesting way of representing data.



DATA HANDLING



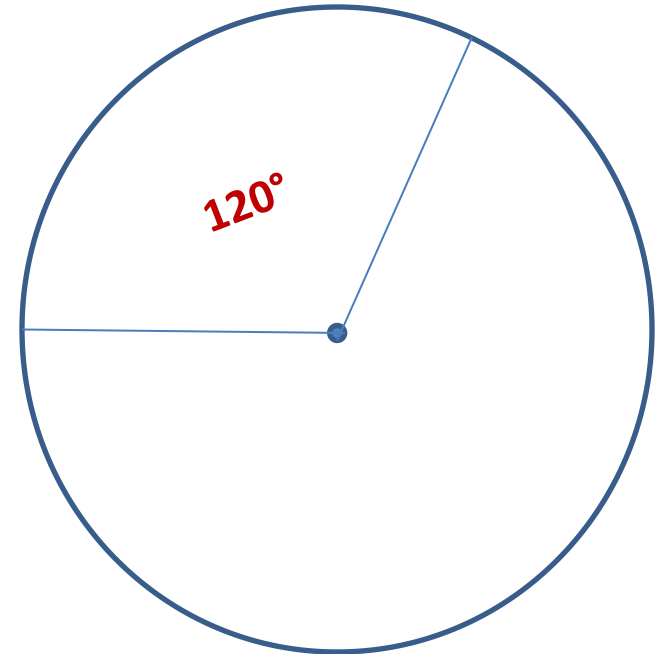
PIE CHART

STEPS TO DRAW A PIE CHART :

1. Draw a circle of your convenience.
2. Draw a radius
3. Find the value to be represented

$$\frac{\text{Value}}{\text{total value}} \times 360^\circ$$

Ex :- 500 out of 1500 = $\frac{500}{1500} \times 360 = 120^\circ$



4. Draw the angles using protractor.



PIE CHART

EXAMPLE 1

Draw a pie chart for the different games played by the students of a school as per the details given below.



S.No.	Games	No. of students
1.	Cricket	600
2.	Football	500
3.	Basket ball	300
4.	Hockey	300
5.	Tennis	100
		1800

Let's find the value:- Cricket = $\frac{600}{1800} \times 360 = 120^\circ$

Football = $\frac{500}{1800} \times 360 = 100^\circ$

Basketball = $\frac{300}{1800} \times 360 = 60^\circ$

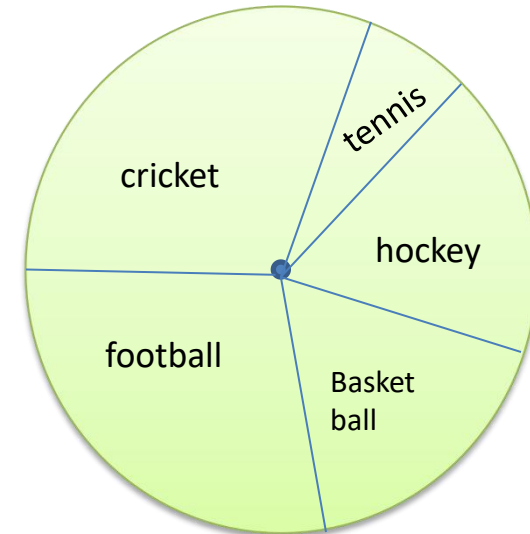
DATA HANDLING



PIE CHART

$$\text{Hockey} = \frac{300}{1800} \times 360 = 60^\circ$$

$$\text{Tennis} = \frac{100}{1800} \times 360 = 20^\circ$$



1. Which sport is the most popular?

Ans. Cricket.

2. Which sport is the least popular?

Ans. Tennis

3. Which two sports have an equal no. of participants?

Ans. Basket ball and hockey.

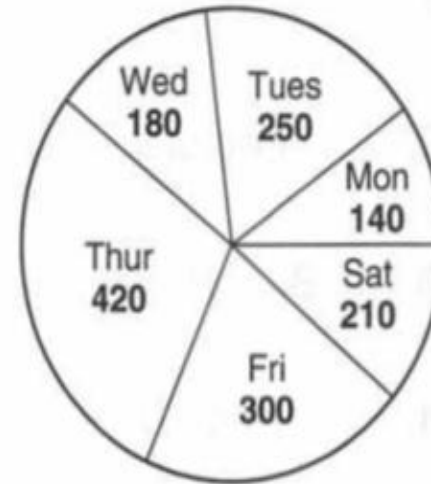
DATA HANDLING



EXERCISE – 21 C

1 Read the pie chart given alongside and answer the following questions :

- On which day maximum books were sold ?
- On which day minimum books were sold ?
- What percentage of books were sold on Wednesday ?
- What percentage of books were sold on Friday ?



a) Thursday

b) Monday

$$c) \frac{180}{1500} \times 100 = 12\%$$

$$d) \frac{300}{1500} \times 100 = 20\%$$

DATA HANDLING



EXERCISE - 21 C

2 Draw a pie chart using the following information.

S.No.	Mode of transport	No. of students using each
1.	School transport	1500
2.	Public transport	500
3.	Own transport	400

Answer the following questions :

- Which is the most popular mode of transport ?
- What percentage of students come on their own ?
- What percentage of students use public transport ?

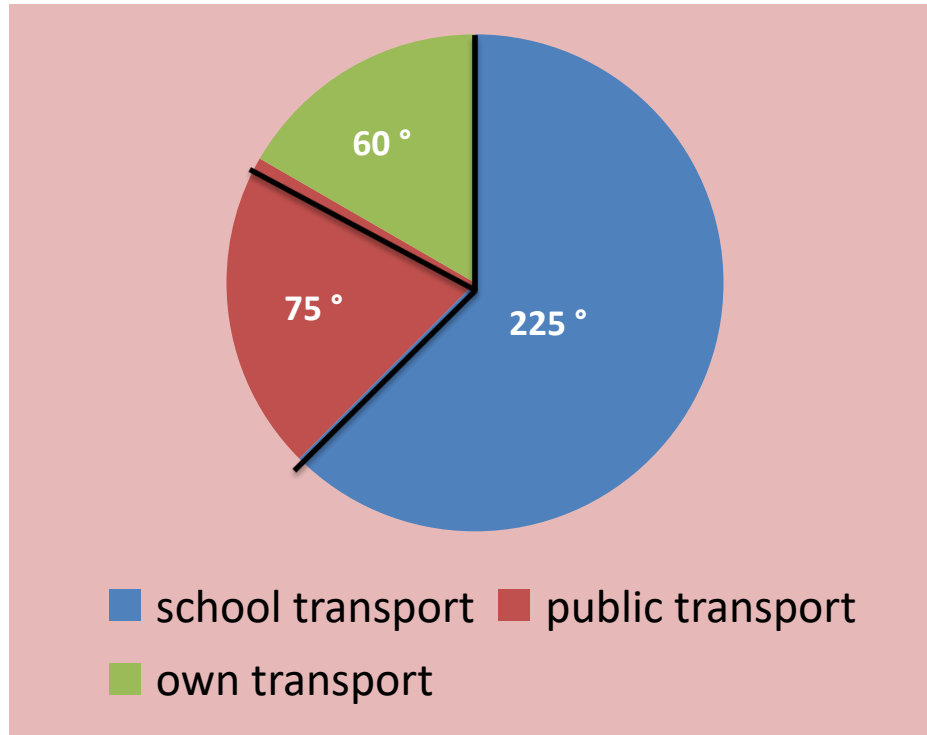
Let's find the value:-

$$\text{School transport} = \frac{\overset{5}{\cancel{1500}}}{\cancel{2400}} \times \frac{\overset{45}{\cancel{360}}}{\cancel{360}} = 225^\circ$$

$$\text{Own transport} = \frac{\cancel{400}}{\cancel{2400}} \times \frac{\overset{60}{\cancel{360}}}{\cancel{360}} = 60^\circ$$

$$\text{Public transport} = \frac{\cancel{500}}{\cancel{2400}} \times \frac{\overset{15}{\cancel{360}}}{\cancel{360}} = 75^\circ$$

EXERCISE – 21 C



a) School transport.

$$\text{b) } \frac{400}{2400} \times 100 = 16.666... = 16.67\%$$

6

c)

$$\frac{500}{2400} \times 100 = 20.8\%$$

6

HOMEWORK



Complete Exercise 21 C q. 1 and 2 in notebook.

The logo for 'Learning Outcomes' features the words 'Learning' and 'Outcomes' in a large, bold, black font with a yellow outline and a drop shadow. To the left of the text is a blue graduation cap with a tassel. Above the word 'Learning' is a red apple with a green leaf.

Learning Outcomes

Students are able:

- **To collect, organise, display, analyse and interpret data.**

THANKING YOU
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GROUP