

**MONTH : JANUARY**

**SESSION : 13**

**CLASS : V**

**SUBJECT : MATHEMATICS**

**CHAPTER NUMBER: 21**

**CHAPTER NAME : DATA HANDLING**

**SUB-TOPIC : PIE CHART**

**EXERCISE 21 C**

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**CHANGING YOUR TOMORROW**

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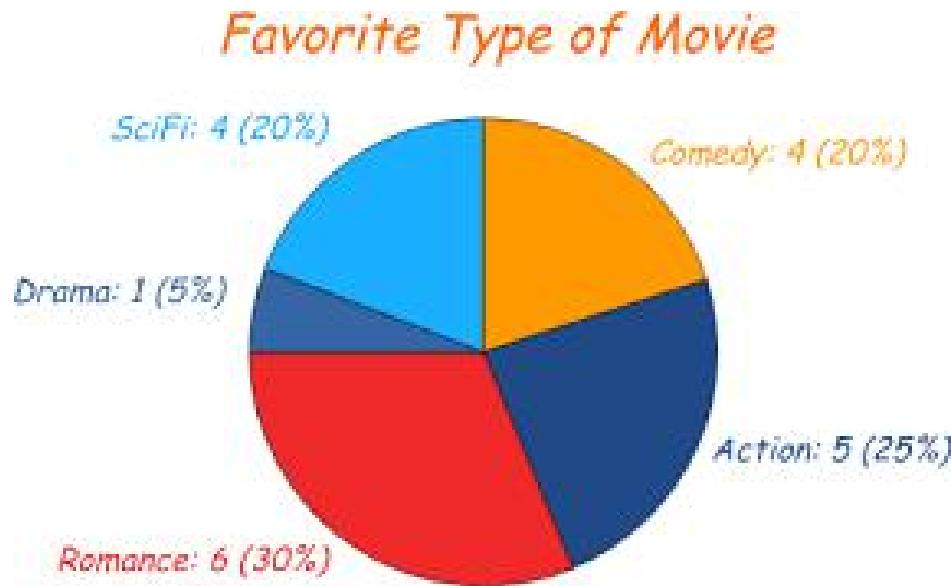
Sishu Vihar, Infocity Road, Patia, Bhubaneswar- 751024

## LEARNING OBJECTIVE :

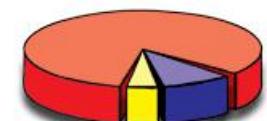
**The learners will develop the skills to collect, organise, display, analyse and interpret data.**

# 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.

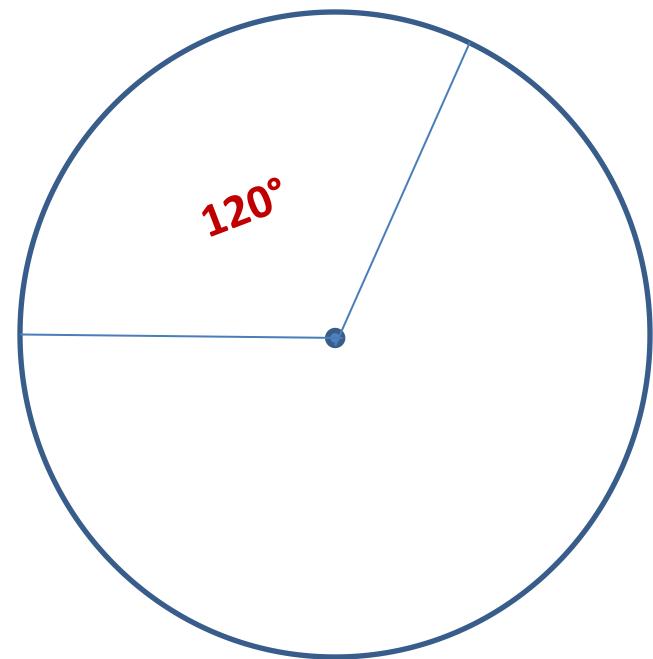
2. Draw a radius

3. Find the value to be represented

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

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

4. Draw the angles using protractor.



DATA HANDLING



# 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.

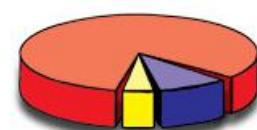
S.No.	Games	No. of students
1.	Cricket	600
2.	Football	500
3.	Basket ball	300
4.	Hockey	300
5.	Tennis	100
		<b>1800</b>

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

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

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

## 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?

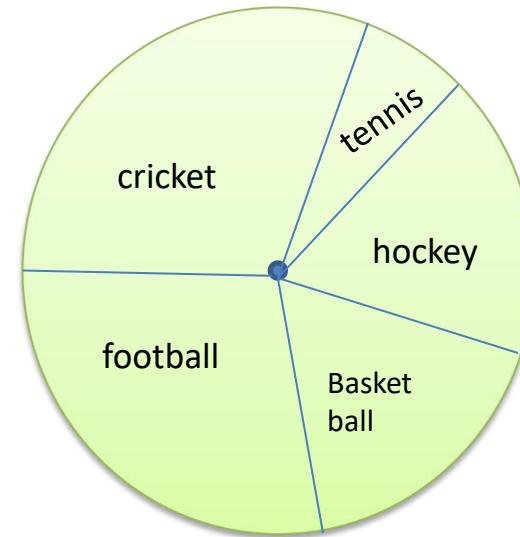
**Ans. Cricket.**

2. Which sport is the least popular?

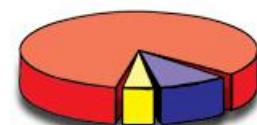
**Ans. Tennis**

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

**Ans. Basket ball and hockey.**



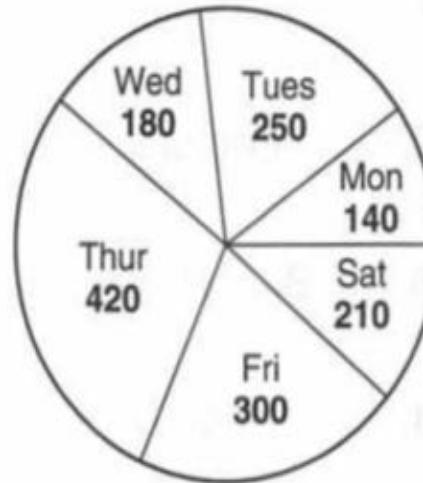
## DATA HANDLING



## EXERCISE – 21 C

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

- (a) On which day maximum books were sold ?
- (b) On which day minimum books were sold ?
- (c) What percentage of books were sold on Wednesday ?
- (d) 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 ?

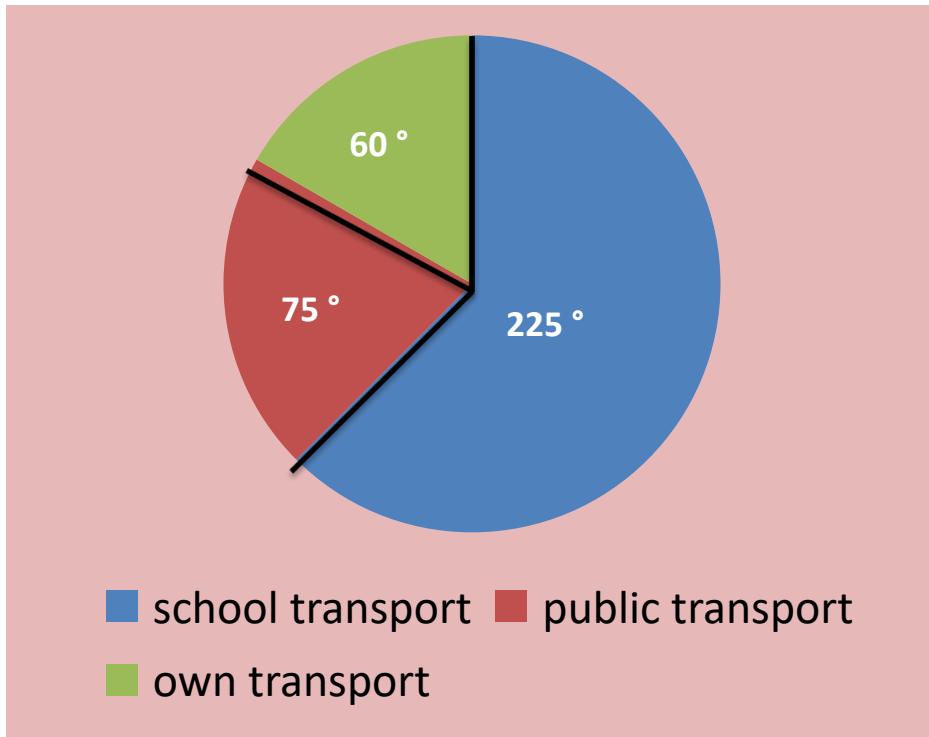
Let's find the value:-

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

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

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

## EXERCISE – 2 I C



a) **School transport.**

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

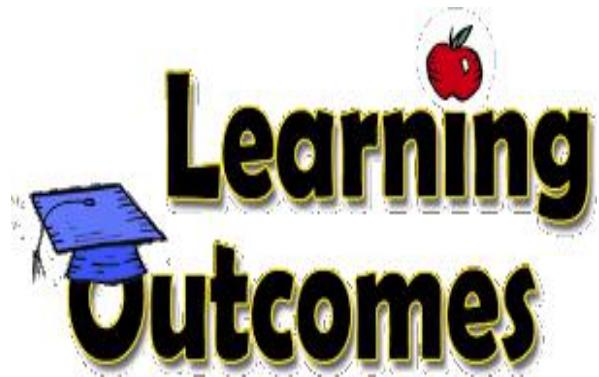
c)

$$\frac{125}{500} \times 100 = 20.8\%$$

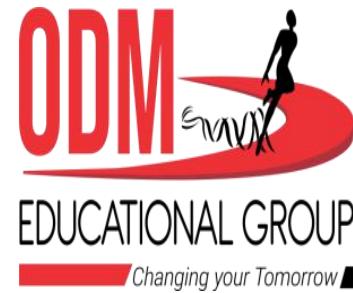
HOMEWORK



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



# Learning Outcomes



## **Students are able:**

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



**THANKING YOU  
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GROUP**