TOPIC 11	DATA HANDLING	**INTERVENSI**

TOPIC 11	**DATA HANDLING**
	Learning Area : Organising and interpreting data. Learning Objective : Organise and interpret data from tables and charts. Learning Outcomes : Construct a pie chart from a given set of data.

Teaching Aids

Duration: 1 hour

Ruler, pencils, charts (horizontal bar graph, vertical bar graph), circular fraction from the chart template.

Set Induction

1. Teacher distributes charts to each group.

2. Teacher puts up the name of the charts on the board.

3. Teacher asks pupils to match correctly.

Step 1 : Match the charts to the names.

Pupils Activity:	Notes to Teachers:
Pupils match the charts correctly.	*All the data of the charts are the same.* *Scope data sets for pie chart construction, convertible to proper fractions with denominators up to 10 only*

Teacher's Instruction:	Expected answers from pupils:
1. Match your charts with the correct name on the board. *2. Name the charts.* *3. Teacher ask few questions pertaining to the charts.*	*1. Pupils match correctly.* *2. Horizontal bar graph, vertical bar graph.* *3. Relevant answer.*

<u>Step 2:</u>   1. Teacher introduce another form of charts – pie chart

2. Teacher explains the features of the pie chart.

<u>Pupils Activity</u>:

- *Pupils are given the data table.*

- *Pupils listen and observe the data given.*

Name	Dolls own
Aishah	3
Bee Lin	2
Chelvi	1
Doris	4

- *Pupils relate the data table and the pie chart given*

  (sample of pie chart, pg 26, Curriculum Specifications)

<u>Notes To Teachers</u>:

1. *Same data can be represented in different form.*

2. *Refer to CS, pg 26 for sample of pie chart.*

<u>Teacher's Instruction</u>:

Look at the data given.

2. How many people are there in the table?

3. How many parts in the pie chart?

4. The person who has the high quantity will represent the biggest area in the pie chart.

5. To form an accurate pie chart, the number of items must be 10. From here we must divide the pie chart into 10 equal parts.

<u>Expected answers from pupils</u>:

2. *4 people*

3. *4 parts*

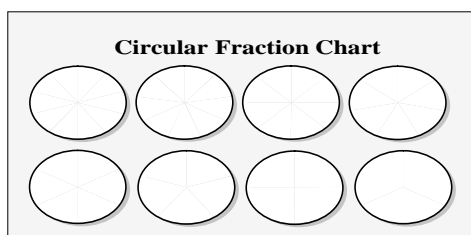Step 3:   1. Teacher guide pupils how to construct the pie chart.

Pupils Activity:

• *Pupils are given the data table.*

> Adam and Mei Ju want to construct a pie chart showing the percentage of their four friends' favourite ice cream flavours. The data they collected is shown in table below.

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Ice cream flavour	Number of children
Corn	4
Durian	3
Yam	2
Vanilla	1

1. *Pupils select the right template to begin constructing the pie chart.*

Circular Fraction Chart

Notes To Teachers:

Scope data sets for pie chart construction, convertible to proper fractions with denominators up to 10 only

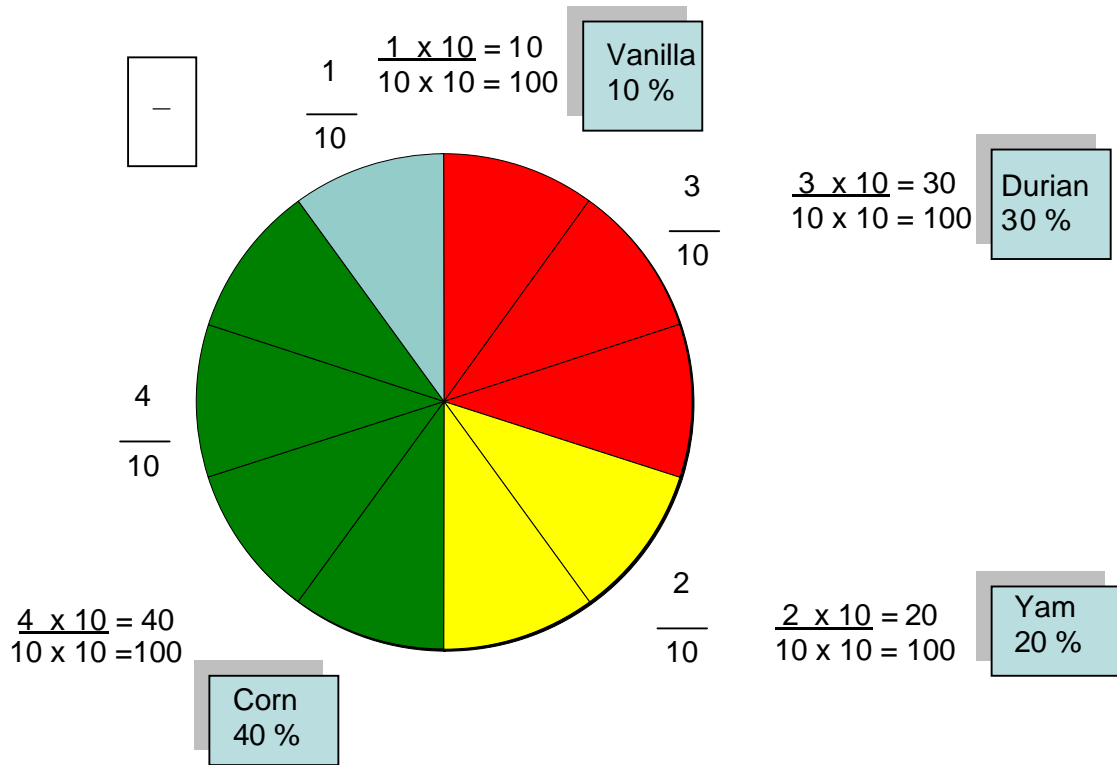*Teacher guides pupils to answer in full sentence.*

Teacher's Instruction:

o *Look at the data table. Can you say something about your data table?*

o *Now, please choose a suitable circular fraction from the chart template.*

o *Now, in groups, you can construct the pie chart contain 10 equal parts.*

o *Colour each part according to the ice cream flavours.*

Expected answers from pupils:

o *The data table contains the total number of children. There are 10 children.*

o *Choose the template with 10 equal parts.*

o *Refer to next page.*

Step 3: Shade the pie chart according to the fractions and transformation to percentage.

$\dfrac{1}{10}$ $\dfrac{1 \times 10 = 10}{10 \times 10 = 100}$ Vanilla 10 %

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$\dfrac{3}{10}$ $\dfrac{3 \times 10 = 30}{10 \times 10 = 100}$ Durian 30 %

$\dfrac{4}{10}$

$\dfrac{2}{10}$ $\dfrac{2 \times 10 = 20}{10 \times 10 = 100}$ Yam 20 %

$\dfrac{4 \times 10 = 40}{10 \times 10 = 100}$ Corn 40 %

WORKSHEET

Pupils Activity:

Pupils discuss the data and select the correct template.

Shade and label the pie chart according to the data given.

Pupil's name	Number of books
Ashraf	1
Zulhilmi	4
Syazwani	3

Pupil's name	Number of pencils
Terry	1
Willy	2
Anglena	3
Lucy	2
Nadirah	2

Pupil's name	Number of pens
Jamilah	1
Dennis	2
Shafiq	3

Pupil's name	Number of friends
Malai	1
Anding	1
Kamarul	1

Circular Fraction Chart
Templates