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P.5 MATH LESSON NOTES WEEK 6 NOVEMBER 2020

LESSON 1

THEME 4: INTERPRETATION OF GRAPHS AND DATA.

- Interpreting the information
- Reading and interpreting tables
- Drawing and interpreting tables
- Interpreting bar graphs
- Drawing bar graphs from tables

THEME 4: INTERPRETATION OF GRAPHS AND DATA

Pictographs

Examples

1. The pictograph below shows a number of books bought in the first term of the school year. Study it and answer the questions that follow.

Maths books	
Science books	

Scale: represent 100 books

a) Give the scale used in the graph above. 1 picture: 100 books

b) How many Science books were bought? 500 books

c) How many Math's books were bought? 600 books

d) What was the total number of books bought? 1100 books

e) How many more Math's books than Science books were bought?

600 – 500 = 100 books

ACTIVITY

1. The pictograph below shows apples imported from South Africa. Study and answer questions that follow.

Mon	
Tue	
Wed	
Thur	
Fri	

Scale: represents 1000 apples

a) What is the scale of the graph?

b) How many apples were imported each day?

c) On which days were the same number of apples imported?

d) how many more apples where collected on Friday than Tuesday?

e) Find the total number of apples imported that week.

LESSON 2

READING AND INTERPRETING TABLES

Example

A farmer recorded the number of pineapples he harvested each month as follows.

Month	Jan	Feb	March	April	May	June
Number of pineapples	420	360	330	380	400	480

a) What was the highest number of pineapples harvested?

480 pineapples

b) When was the lowest number of pineapples harvested?

330 pineapples

c) What was the difference between the highest and the lowest harvest?

480 – 330 = 150 pineapples

d) How many pineapples were harvested in the six months?

420 + 360 + 330 + 380 + 400 + 480 = …… pineapples

Activity

1. The table below shows average temperature of a certain place.

Months of the year	J	F	M	A	M	J	J	A	S	O	N	D
Temperature in ^{o}c	32^{o}	30^{o}	25^{o}	15^{o}	23^{o}	25^{o}	24^{o}	24^{o}	23^{o}	24^{o}	26^{o}	24^{o}

a) Which are the warmest months in the year?

b) What is the lowest temperature?

c) What is the difference between the highest and the lowest temperature?

2. The table below shows a pupils score in the class subjects.

Subjects	English	Maths	Science	Social studies
Scores	80%	90%	85%	75%

a) In which subject did the pupil score highly?

b) How many subjects were examined?

c) What is the difference between the highest and the lowest score?

d) What was the Child's total score?

e) Calculate the pupils average score.

LESSON 3

DRAWING AND INTERPRETING TABLES

Example

A farmer collected 20 eggs on Monday, 25 eggs on Tuesday, 15 eggs on Wednesday, 30 eggs on Thursday and 25 eggs on Friday.

a) Draw a table to represent the above information.

Day	Monday	Tuesday	Wednesday	Thursday	Friday

Eggs	20	25	15	30	25

b) On which day was the highest number of eggs collected?

c) When was the least number of eggs?

d) What was the total number of eggs collected in the five days?

ACTIVITY

1. A poultry farmer sold a number of chickens as follows;

   Monday 25, Tuesday 15, Wednesday 20, Thursday 25, Friday 30, Saturday 35.

a) Draw a suitable table to show this information.

b) What was the sum of the chicken sold?

c) What is the difference between the highest and the lowest number of chicken sold?

2. A nurse recorded patients who reported at the clinic with malaria as follows:

   Mon 20, Tues 15, Wed 10, Thur 25 and Fri 30.

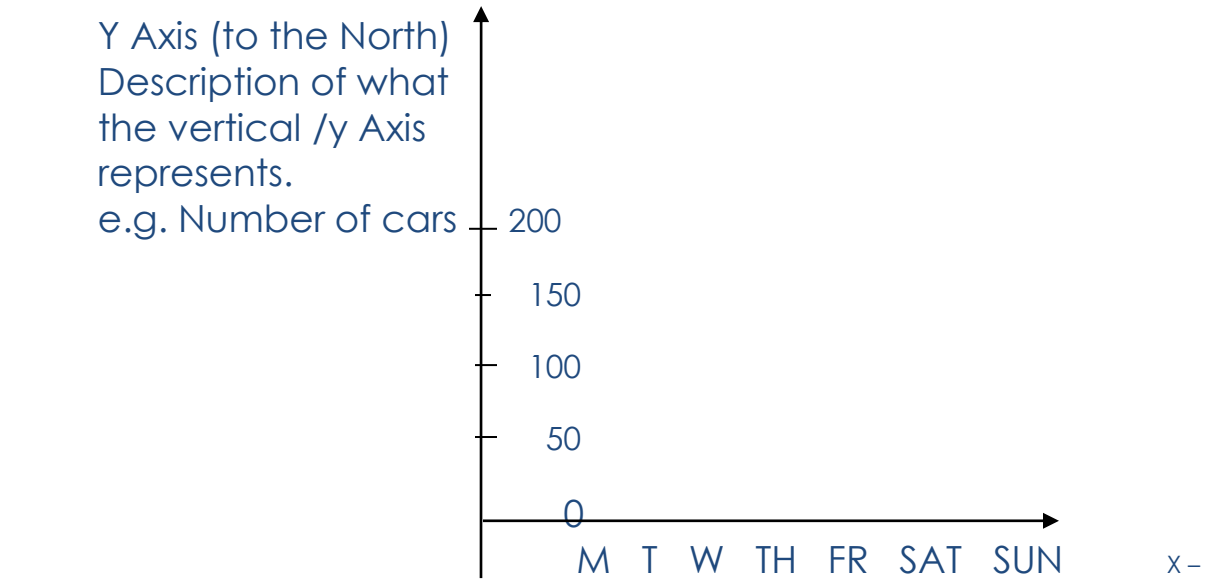
a) Draw a suitable table to show this information.

b) What was the sum of all malaria patients in that week?

c) What was the highest number of patients recorded?

LESSON 4

INTERPRETING BAR GRAPHS:



Description of what the horizontal /X-Axis represents e.g.

Days of the week.

Note

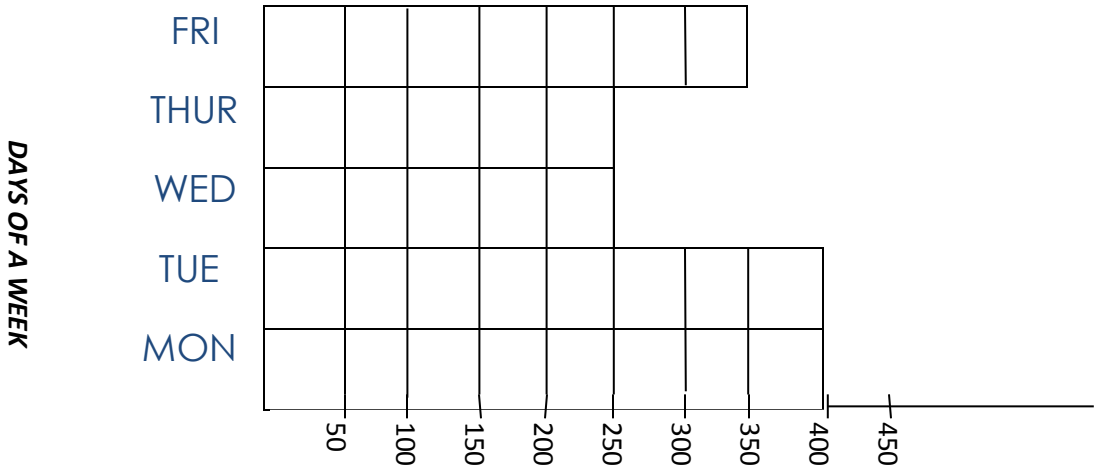
Scale refers to what amount a square stands for e.g. on the vertical side

(Y – axis). 1 small square = 50 cars

On the horizontal axis (x –axis), 1 small square stands for 1 day.

Example

The graph shows p/s daily attendance for a week. Use it to answer questions below.



a) Which days have the highest school attendance?

b) Which days have the lowest school attendance?

c) What is the difference between the highest attendance and the lowest attendance?

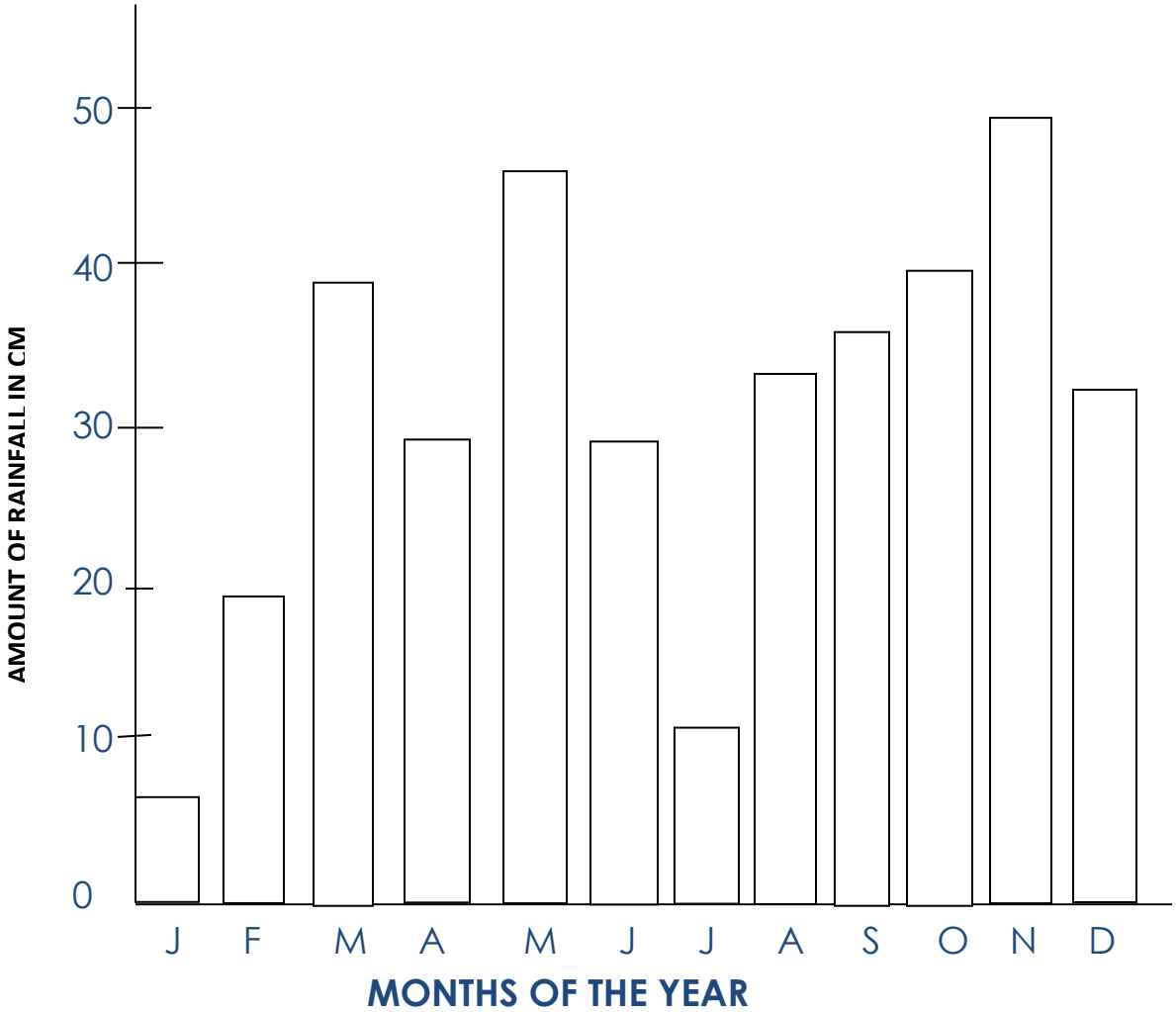
d) What does 1 small square stand for on the y – Axis?

e) What does 1 small square stand for on the x –Axis?

ACTIVITY

Study the graph below and answer the questions that follow.

RAINFALL RECORDED AT KINYARA P/S IN 2010



a) What is the graph about?

b) What does the horizontal axis show?

c) What is the scale on the horizontal axis?

d) How much rainfall was recorded in the month of August?

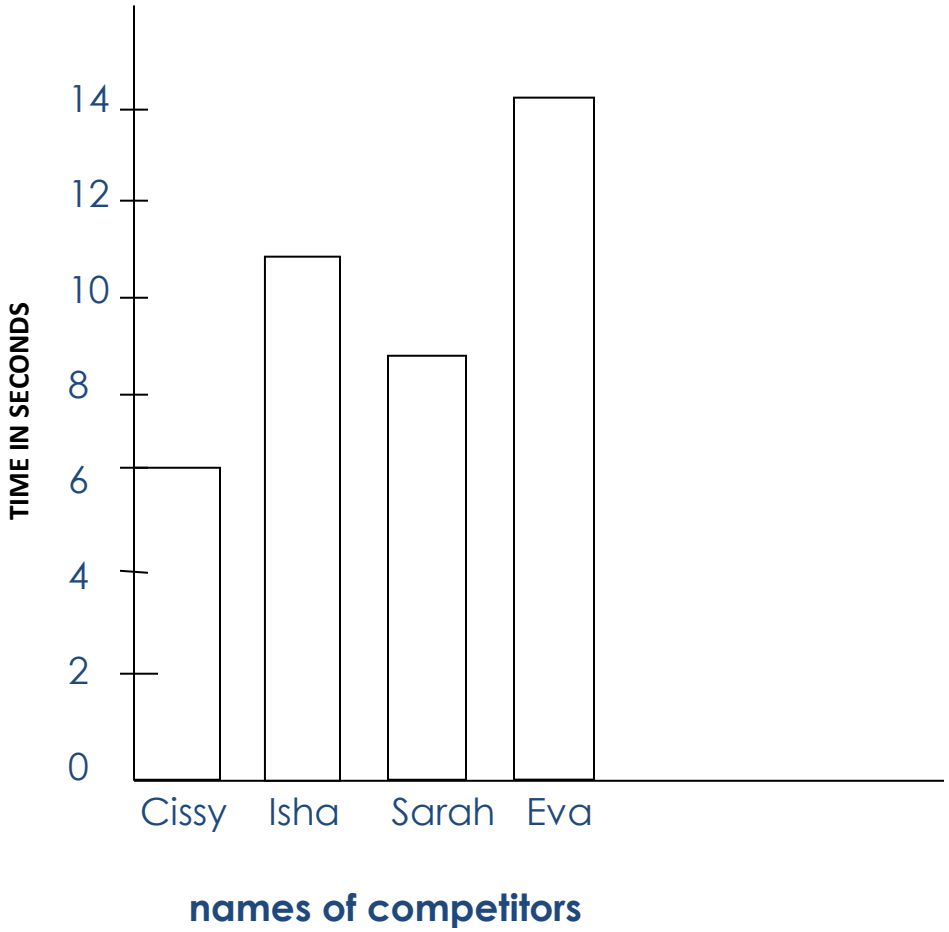
e) Which months received the same amount of rainfall?

f) In which month was the lowest rainfall recorded?

g) Which month received no rain at all?

h) Find the average monthly rainfall fro that year?

2. The bar graph below represents time taken by different competitors in a 200m race. Study it and answer the questions that follow.



a) What is the graph about?

b) How much time was taken by each competitor?

c) What was the average time taken by the four competitors?

d) Which competitor completed in 6 seconds?

e) Which competitor won the race?

f) Who was the slowest competitor?

g) How much earlier did Cissy complete the race than Eva?

h) How much longer did Sarah take to complete the race than Cissy?

i) What is the scale on the vertical Axis?

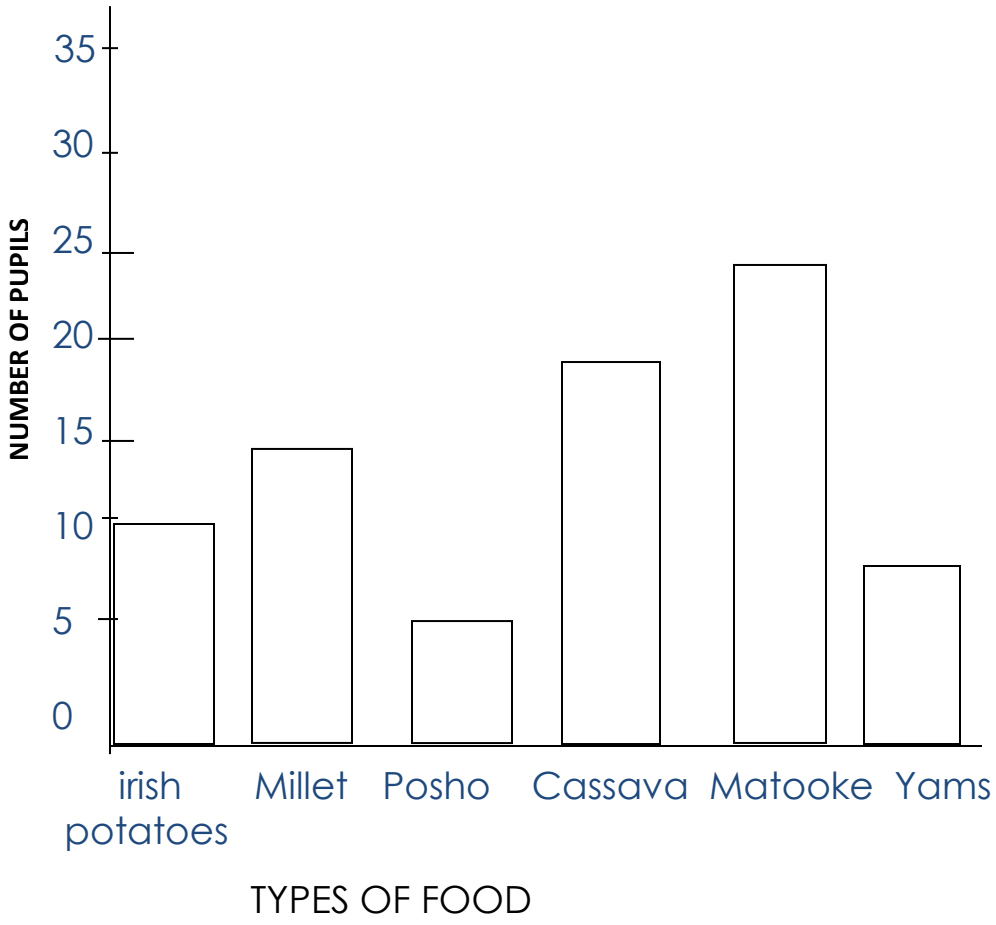
LESSON 5

Drawing bar graphs from tables

The table below shows types of food liked by pupils in P.5 class.

No of pupils	10	15	5	20	25	10
Types of food	Irish potatoes	Millet	Posho	Cassava	Matooke	Yams

a) Represent the above information on a bar graph.



a) Which type of food is preferred by most pupils?

b) Which type of food is the least popular?

c) Which types of food are equally liked?

d) How many pupils are there altogether?

e) How many types of food are there?

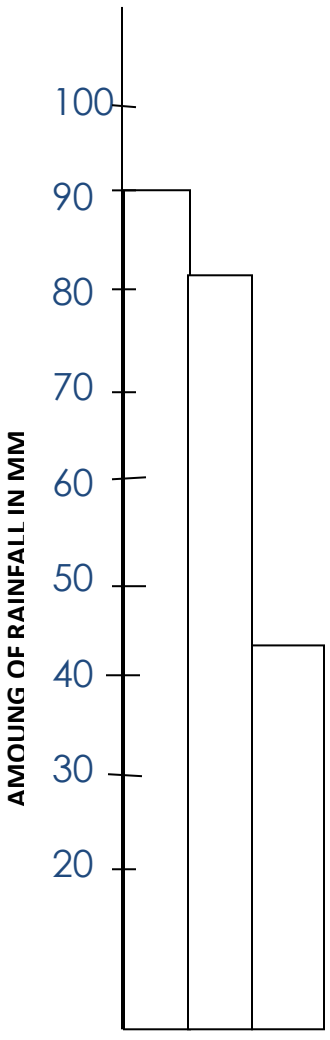
f) What is the difference between the highest and the lowest food type preferred?

ACTIVITY: The table below shows the average rainfall at Hormisdallen School in 2010.

Months of the year	J	F	M	A	M	J	J	A	S	O	N	D
Rainfall in mm	90	85	40	15	45	40	60	60	70	60	75	60

a) Copy and complete the graph to represent the information in the table above.

AVERAGE RAINFALL AT HORMISDALLEN SCHOOL IN 2010



10 –

J F M A M J J A S O N D

MONTHS OF THE YEAR

Use the graph above and answer the following questions.

1. What was the most common rainfall recorded that year?

ii. What is the scale on the vertical axis?

iii. Which months had the same average rainfall?

iv. Which was the wettest month of the year?

v. Which was the driest month of the year?

2. The table below shows age of people in Mukooli's family.

Name	Mr.Mukooli	Mrs.Mukooli	Bagole	Walukо	Walusana	Naiga	Kauma	koote
Age in yrs	6	40	18	12	10	8	6	4

a) Draw a bar graph to show the age of people in Mr. Mukooli's family. (Vertical scale: 1 sq=4years)

b) Who is the eldest child from Mukooli's family?

c) What is the sum of the age of all the children?

d) What is the difference between Mr. Mukooli's age and the wife's age?