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Ain Jaloot School
2020-2021



Chapter 13

Data



LESSON 1+2 ... Line graph التمثيل الخطي

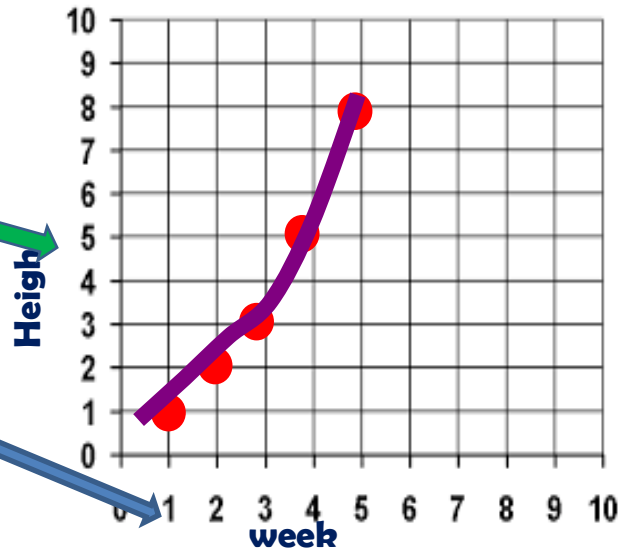


(الهدف) Outcomes: Create and describe line and double line graphs

Answer

Plant Growth

Title	
X-axis	Y-axis
Week, x	Height (cm), y
1	1
2	2
3	3
4	5
5	8



x-axis (horizontal axis) المحور الأفقي

y-axis (vertical axis) المحور الرأسي

Q1 : Represent each data set in a line graph

Scale المقياس

y-axis(0-46)

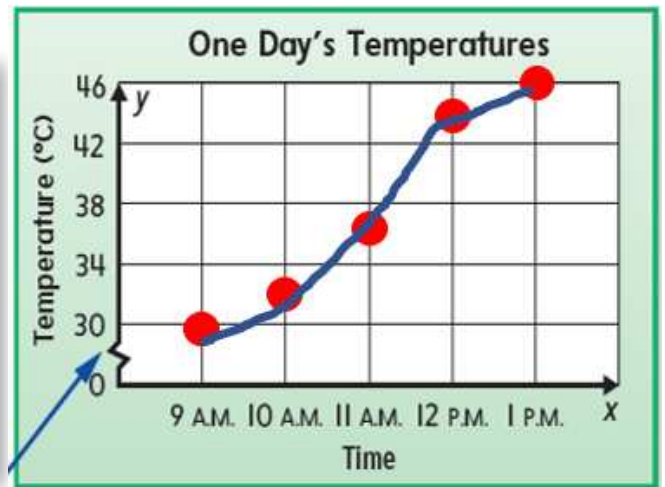
x-axis(0-1pm)

Interval فترة

y-axis = 4

x-axis = 2h

Time, x	Temperature (°C), y
9 A.M.	30
10 A.M.	32
11 A.M.	36
12 P.M.	44
1 P.M.	46



Q2 : Represent each data set in a line graph

Find:

1. Title Data production

2. Title of horizontal axis...Country...

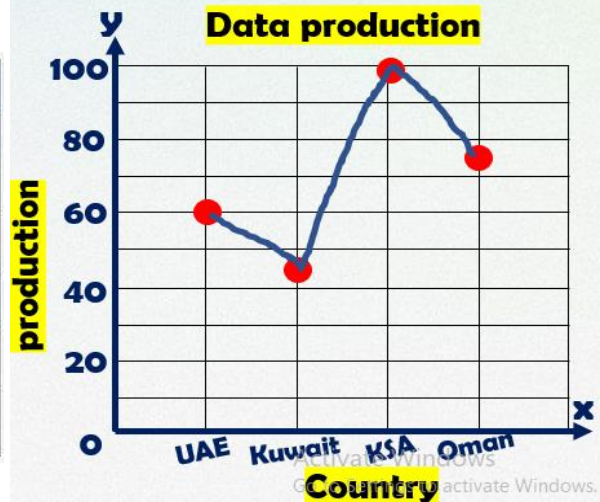
3. scale of y axis.0-100

4. interval of y

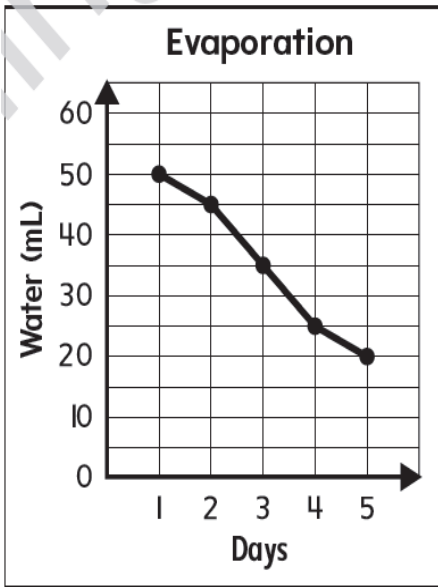
axis.20

5. Production in UAE 60,000

انتاج التمور Dates production	
Country	Production in thousands
UAE	60
Kuwait	45
KSA	100
Oman	75



The line graph shows the Evaporation of water



1. What is the **title** of line graph?
 (A) Water (B) Days (C) **Evaporation**
2. What is the **Scale** of vertical axis?
 (A) **0-60** (B) 0-5 (C) 5
3. What is the **interval** of horizontal axis?
 (A) 5 (B) 1 (C) 10
4. On any day, the evaporation of water reaches 25 ml?
 (A) 3 (B) 4 (C) 5

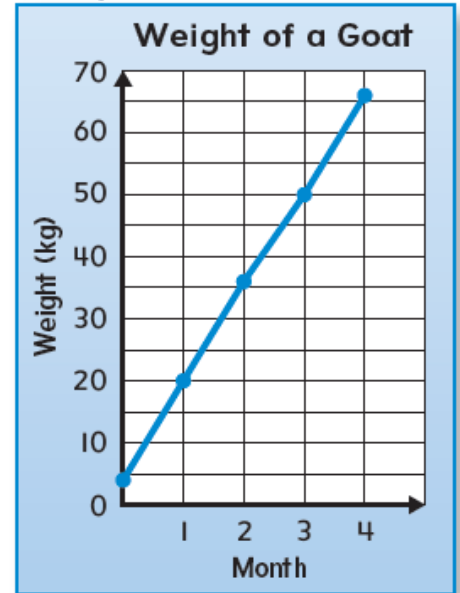
Activate Windows

The line graph shows the weight of a goat

1. On the vertical axis, the **scale** (or weight range) starts at **0** kilograms and goes up to **70** kilograms.

2. On the vertical axis, each **interval** is **5** kilograms.

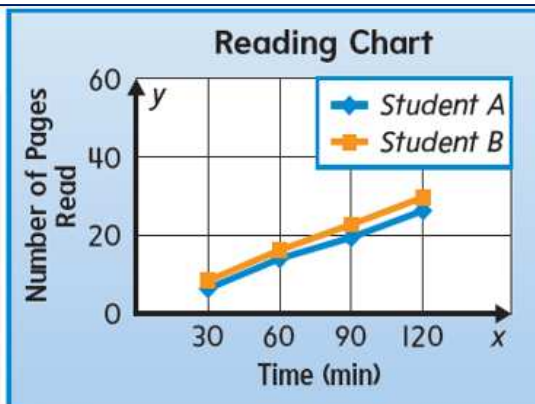
3. The goat's weight started at **5** kilograms. At the end of the fourth month, the goat weighed **65** kilograms. So, the goat gained about **15** kilograms per month.
 $35 - 20 =$



The double line graph shows the number of pages two students read over a 2-hour period.

7. What is the **scale** of each axis?
0-60 pages, 0-120 min

8. What is the size of each **interval** on each axis?
20 pages, 30 min



Scale المقياس

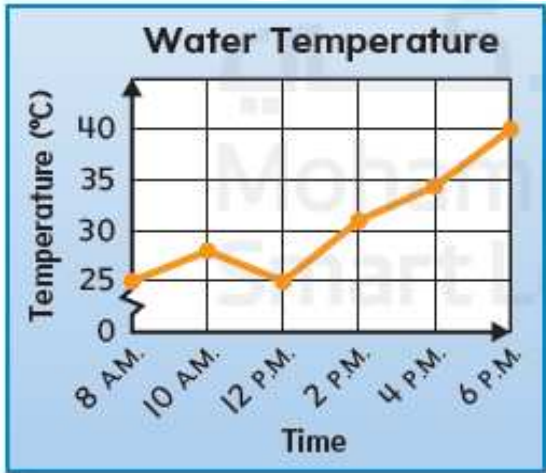
Interval فترة

9. Describe the patterns the line graphs show about the number of pages the students read.

Student B reading more than student A at the same time



This graph show hourly temperature data. Find :

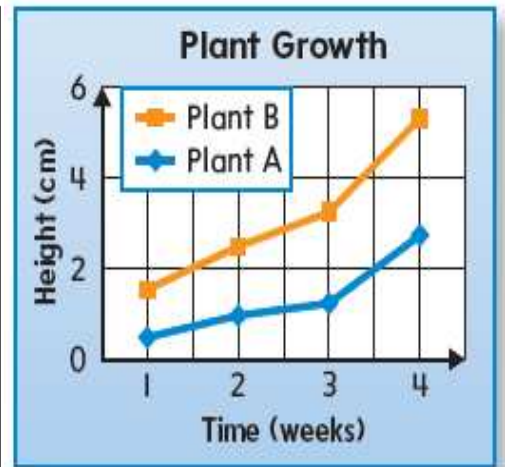


The warmest temperature is 40° C

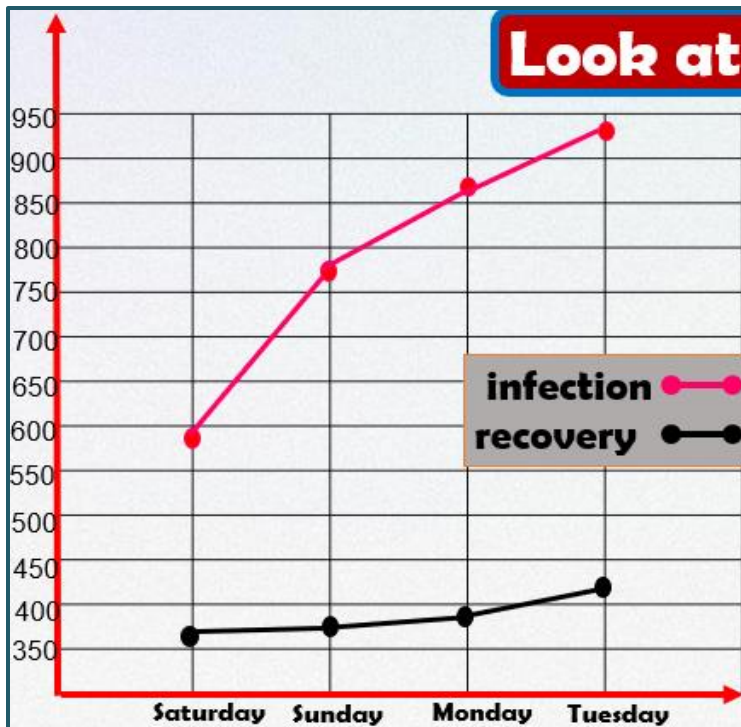
The coldest temperature is 25° C

Tarek's class measured the growth of two plants and displayed their data in a double line graph. Which of the following statements is true?

- (A) After 2 weeks, Plant A is taller than Plant B.
- (B) the plants are not growing.
- (C) Both plants grew the most between weeks 3 and 4.
- (D) Both plants grew the most during the first week.



Look at Double Line Graph:



1) The **scale** of the y-axis is **5.0** person

2) Number of recovery in **Monday** is **398** person

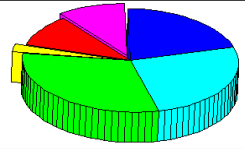
- 3) Which sentence is correct
- a. Rate of recovery more than infection
 - b. There is no change in recovery rate
 - c. The rate of cure increases daily



LESSON 3 ... التمثيل بالدائرة Circle graph

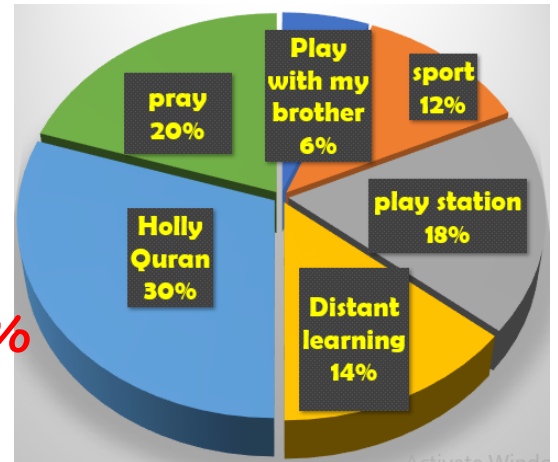
(الهدف) Outcomes: I can read and understand a circle graph.

A circle graph : displays information in sections of the circle and can be represented as fractions, decimals, or percentages



Q1 : Complete the correct answer :

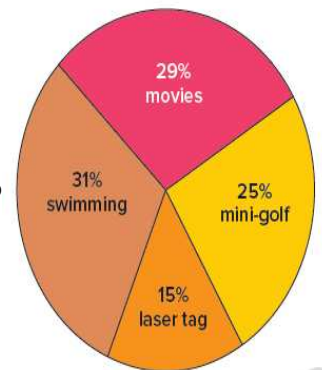
- 1) Which activity represents the highest percentage of daily activities? **Holly Quran**
- 2) Which activity represents the lowest percentage of daily activities? **Play with my brother**
- 3) What percentage of the time allocated to Pray? **20%**
- 4) Which one has a higher percentage of sport or distance learning? **Distance learning**
- 5) What's the percentage of sport and playing with my brother? **12+6=18%**



- 6) How much more does the percentage of prayer than the percentage of play station?
20-18=2%

Q2 : Choose the correct answer :

- 6) Which group includes the fewest number of votes ?
 a) laser tag b) movies c) swimming
- 7) What percent of people likes swimming over than movies?
 a) 4% b) 2% c) 6%
- 8) What percent of people like mini-golf and laser tag?
 a) 60% b) 30% c) 40%



Q3 : Problem solving :

Amal surveyed 60 people about their favorite food. The circle graph shows her results. Use the graph to answer each question.

- 1) Approximately what percent of people like beefburgers over chicken sandwiches? **32-21=11%**
- 2) What is the most preferred food? **beefburgers**
 And by what percentage? **32%**

