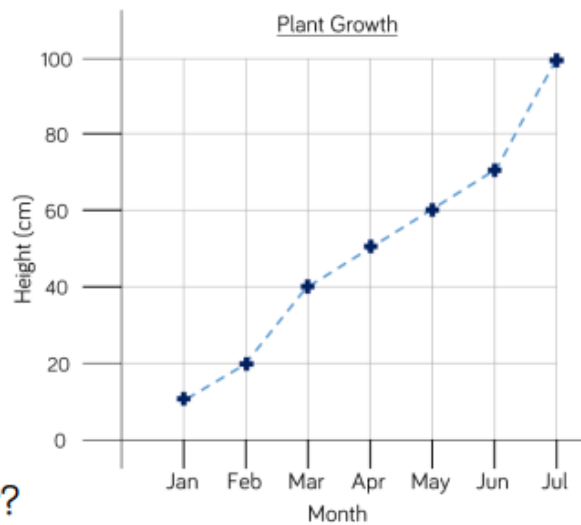


Tuesday 23rd June 2020

Interpreting and Drawing Line Graphs

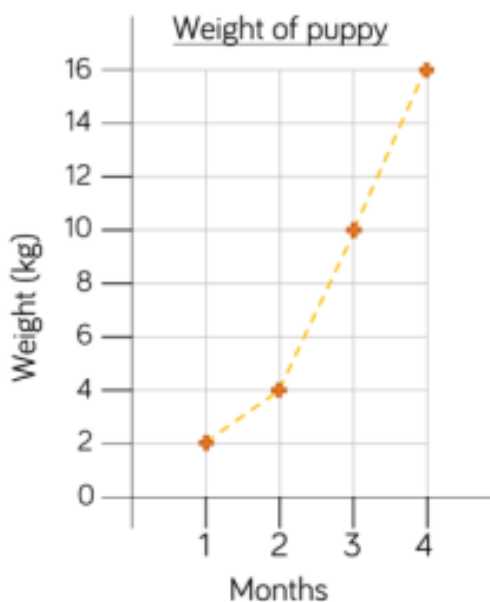
1.

The graph shows the growth of a plant over 6 months.



- a) How tall was the plant when it was measured in May?
- b) In what month did the plant first reach 50 cm?
- c) How many centimetres did the plant grow between March and July?
- d) What was the difference between the height of the plant in February and the height of the plant in April?

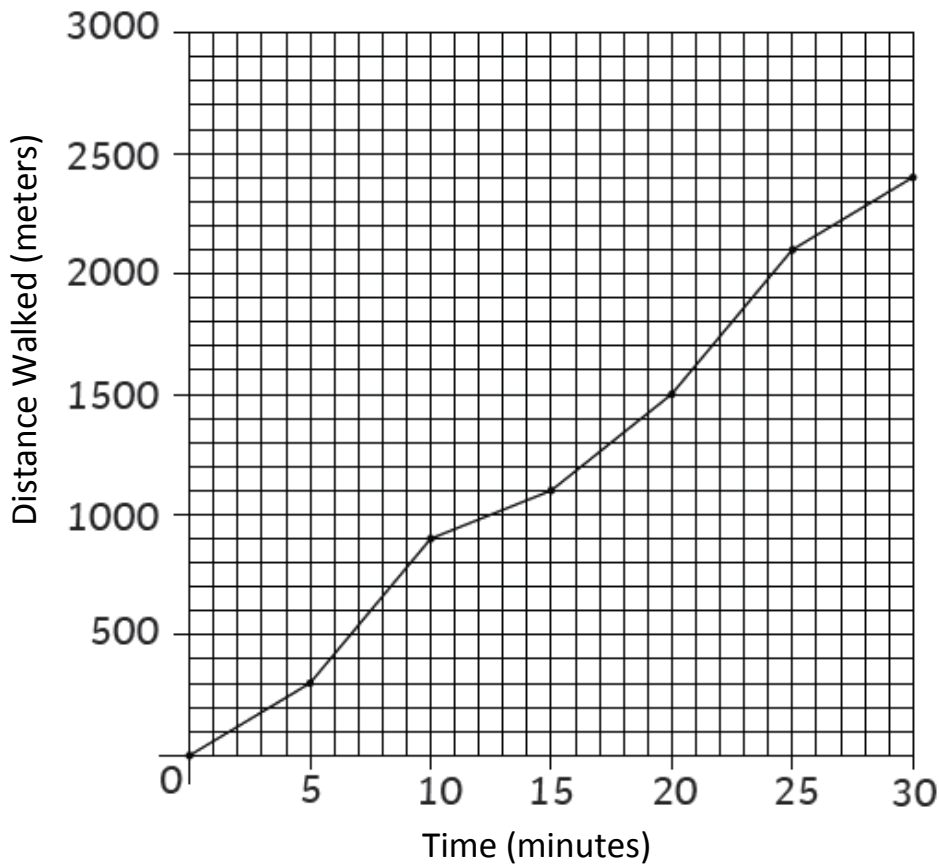
2.



- a) When the puppy was 2 months old the weight waskg
- b) Between month 2 and month 3 the puppy increased bykg
- c) The puppy reached a weight ofkg when it was 4 months old.

3.

A Line Graph to Show How Far a Class Walked Over Half an Hour.



Copy and complete this table using the information in the line graph above.

Time in Minutes	Distance in Metres
5	
10	
20	
30	

The story behind this graph could be:

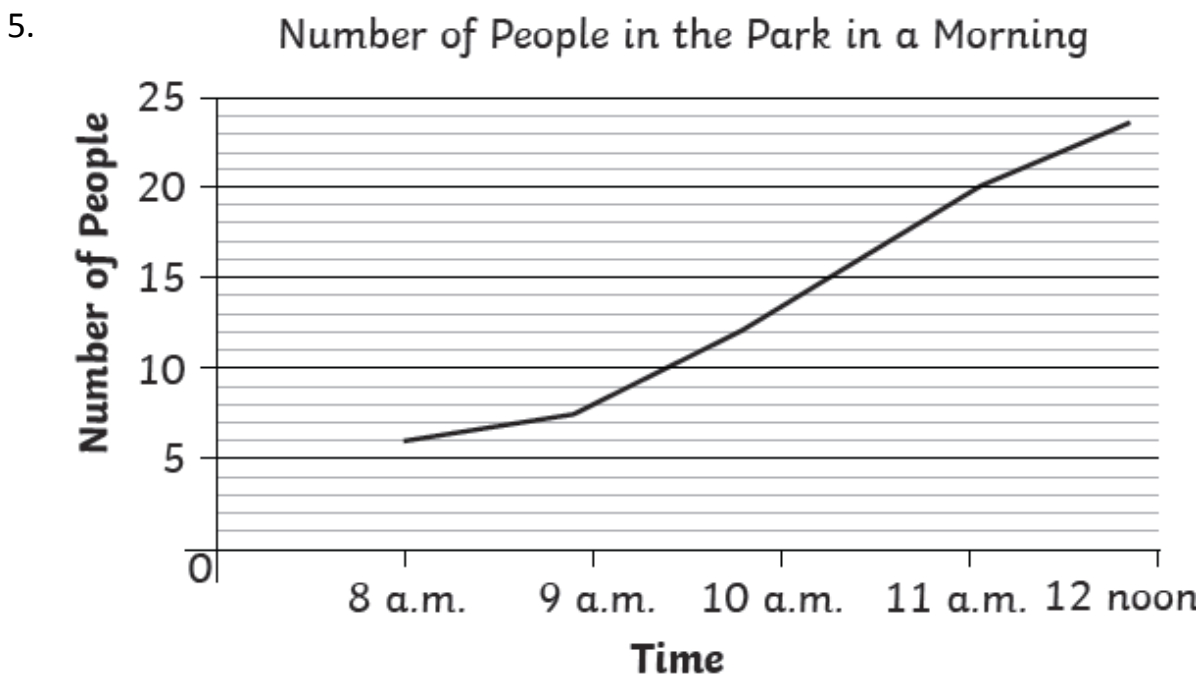
The class set off for a walk. During the first 5 minutes they kept to a steady pace. After 5 minutes they picked up the pace and began to walk faster. By 10 minutes they were probably tired or they came to a steep hill because the pace slowed down. After 15 minutes they started to walk quickly again, then for the last 5 minutes of the walk it was a steady but slightly slower pace. At NO time did they stop for a break.

4. Use the chart below to draw your own line graph.

Time of Day	Temperature
11 a.m.	12°C
12 noon	17°C
1 p.m.	18°C
2 p.m.	21°C
3 p.m.	22°C
4 p.m.	22°C

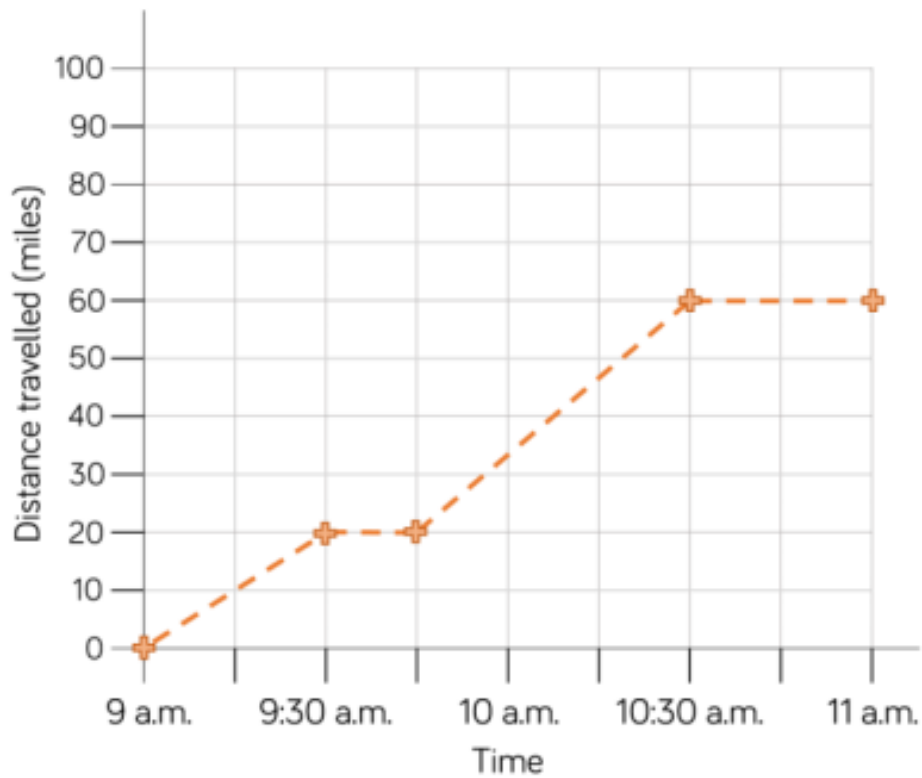
NOTE: Time of Day = X axis, Temperature = Y axis.

ALL drawn and written **on the lines** in your book.
LOOK at the previous line graphs again to help you to draw yours accurately.



- Between which times did the visitor numbers increase the most?
- Binta said, "The number of visitors at 8.30 a.m. was 6 and a half." Why is Binta wrong?
- Is there a better way of displaying this data to avoid a mistake like this one?
- Mumtaz said, "I know that only 1 person arrived at the park between 8 a.m. and 9 a.m." Is she correct?
- What other explanations for the change in visitors are there?

CHALLENGE:



Every chart and graph that we have looked at so far tells a story, how things are growing, how fast or slow things are moving, etc.

This graph has no title but the labels on the axis tell us that something or someone is travelling over a period of time.

Make up a story to go with this line graph.