

Hello Year 4!

Week 2, Summer 2 and we know you guys are smashing it! We are so proud of your hard work with all your online learning.

We know you're giving it your best go!

We have set up your learning for the next week as daily slides for you to follow.

Please follow the instructions on each page to help you - we look forward to hearing about how you have got on!

Miss Hill and Mrs Tally

Notes for Maths Online Learning

- You will need a pencil and a piece of paper, if you have a pad you can keep working from this would be ideal.
- All MyMaths Online lessons will have unlimited availability for you to complete. We will be able to access it each day to see how you got on and if you have completed the task we have set.
- After some sessions there will be a '**extra**' activity if you would like some additional reasoning work to do.
- We will endeavor to provide lessons and activities which you will not need to print off.



St Catherine's Classroom Beliefs

- Mistakes are valuable.
- Everyone can learn maths to the highest level.
- Questions are really important.
- Depth is more important than speed.
- Maths is about making connections.

Session 1



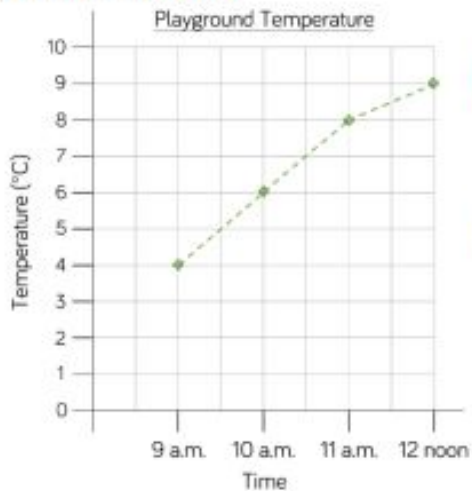
Statistics

- Children are introduced to line graphs in the context of time. They use their knowledge of scales to read a time graph accurately and create their own graphs to represent continuous data.
- Interpreting Data
- It is important that children understand that continuous data can be measured (for example time, temperature and height) but as values are changing all the time, the values we read off between actual measurements are only estimates.



Monday 8th June

The graph shows the temperature in the playground during a morning in April.



The temperature at 9 a.m. is _____ degrees.

The warmest time of the morning is _____.

MATHS CHAT

Which is the x and y axis?
What do they represent?

- How would you estimate the temperature at 9:30 a.m.?
- How would you estimate the time it was when the temperature was 7 degrees?

Monday 8th June

Class 4 grew a plant. They measured the height of the plant every week for 6 weeks. The table shows the height of the plant each week.

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
4 cm	7 cm	9 cm	12 cm	14 cm	17 cm



Create a line graph to represent this information.
What scale would you use on the x and y axes?
Between which two weeks did the plant reach a height of 10 cm?

You will need:

A ruler

Equal intervals to plot your line on the graph

Labeled x and y axis

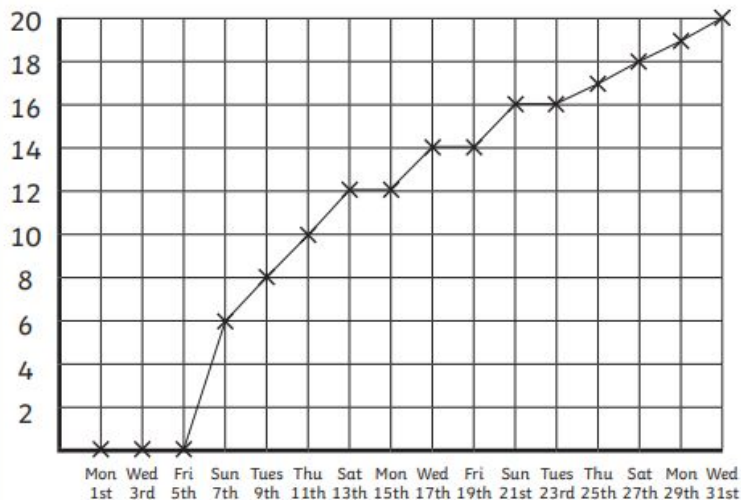
Monday 8th June



Sunflower Line Chart

Here is a line graph showing a sunflower's growth.

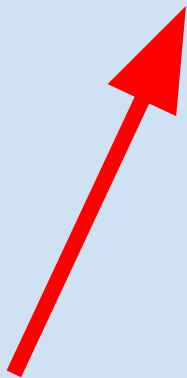
Its height was measured every two days.



Questions

1. How many days did the plant take to grow to 18cm?
2. What is the height difference between Friday 19th and Thursday 25th?
3. Why is there no measurement in the first week?
4. What is the height of the plant on these days:
 - a) Thursday 11th
 - b) Friday 19th
 - c) Monday 29th

TIMES TABLES PRACTISE!



CLICK THE LINK AND PLAY THE
GAMES TO PRACTISE YOUR
TIMES TABLES!

Remember....all the way up to x12!

Times tables games



My Smart Horse



Rally V10



Submarine Math



Animal Rescue



Number Diving



Times Tables Rally

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Session 2



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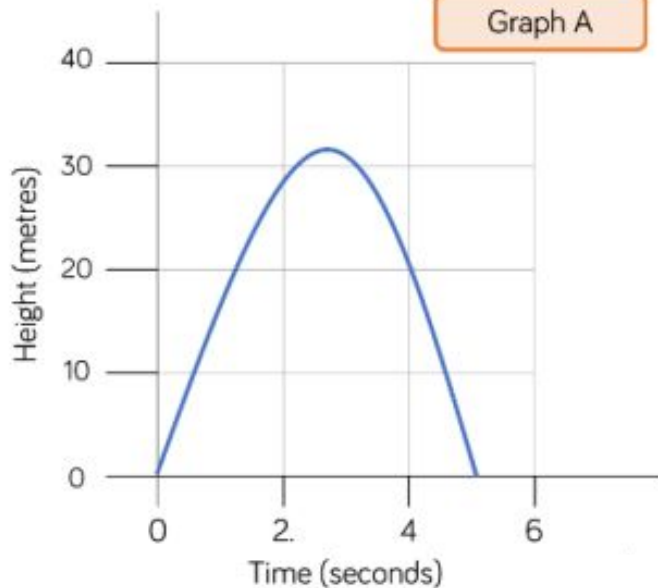


Tuesday 9th June

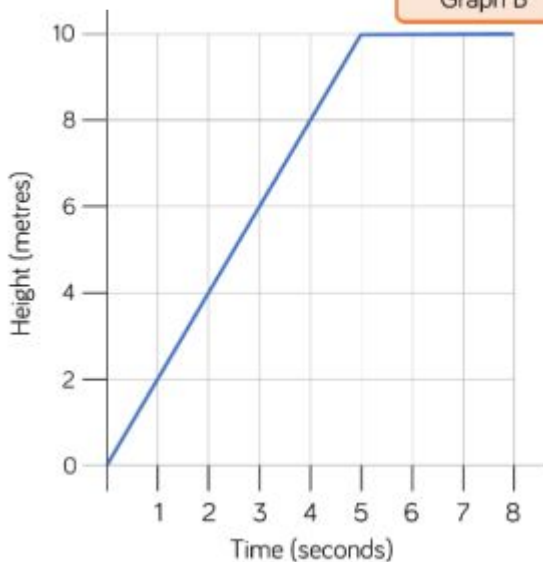
Jack launched a toy rocket into the sky.
After 5 seconds the rocket fell to the
ground.

Which graph shows this?
Explain how you know.

Graph A



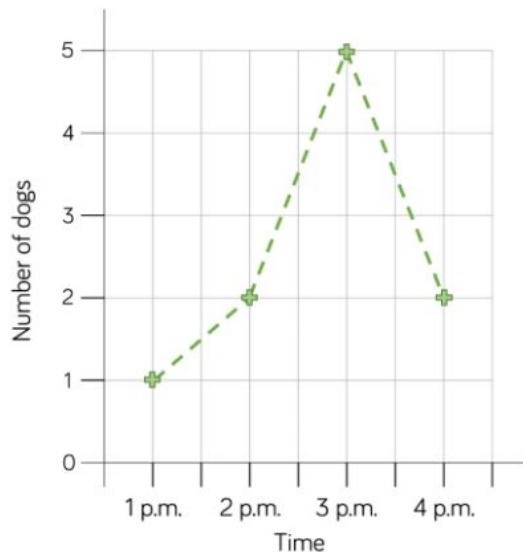
Graph B



Write your own story for the
other graph!

Tuesday 9th June

Tommy created a line graph to show the number of dogs walking in the park one afternoon.



Tommy says,

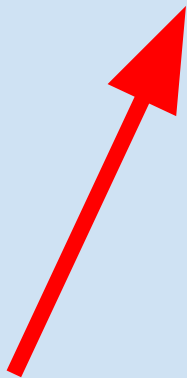


At half past one
there are 1.5 dogs
in the park.

Why is Tommy incorrect?

What would be a better way of presenting this data?

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Session 3



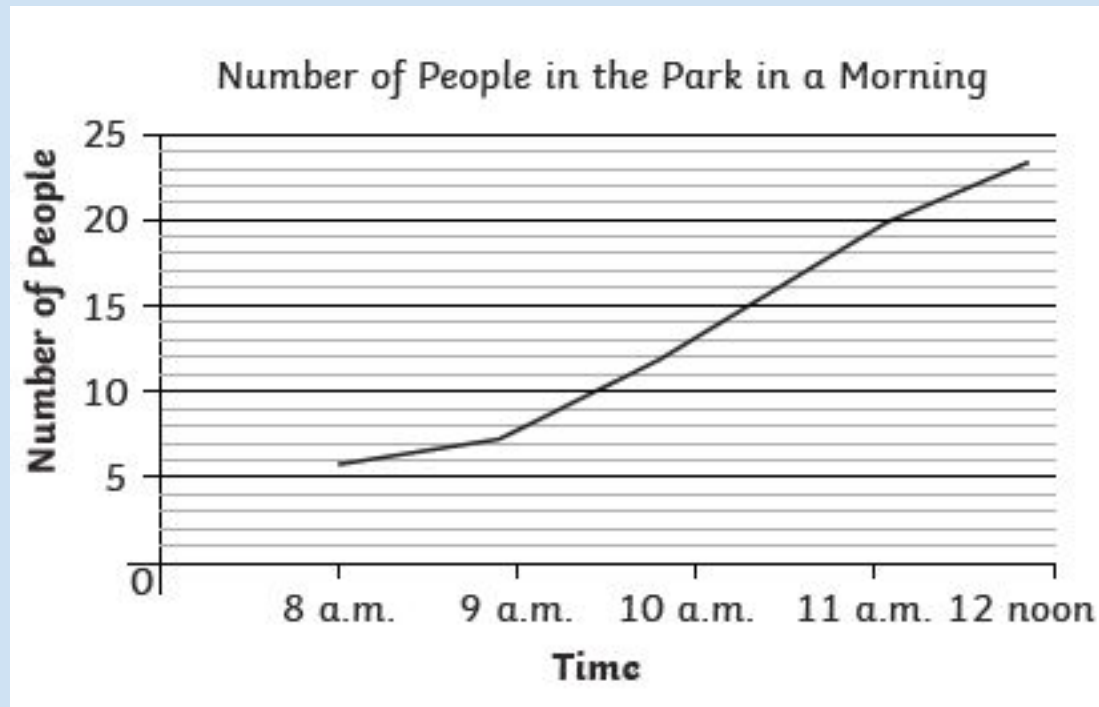
Statistics

- Building from the last step, children continue to solve comparison, sum and difference problems using continuous data with a range of scales.
- They use addition and subtraction to answer questions accurately and ask their own questions about the data in line graphs. Although examples of data are given, children need to have the opportunity to ask and answer questions relating to data they have collected themselves.



Wednesday 10th June

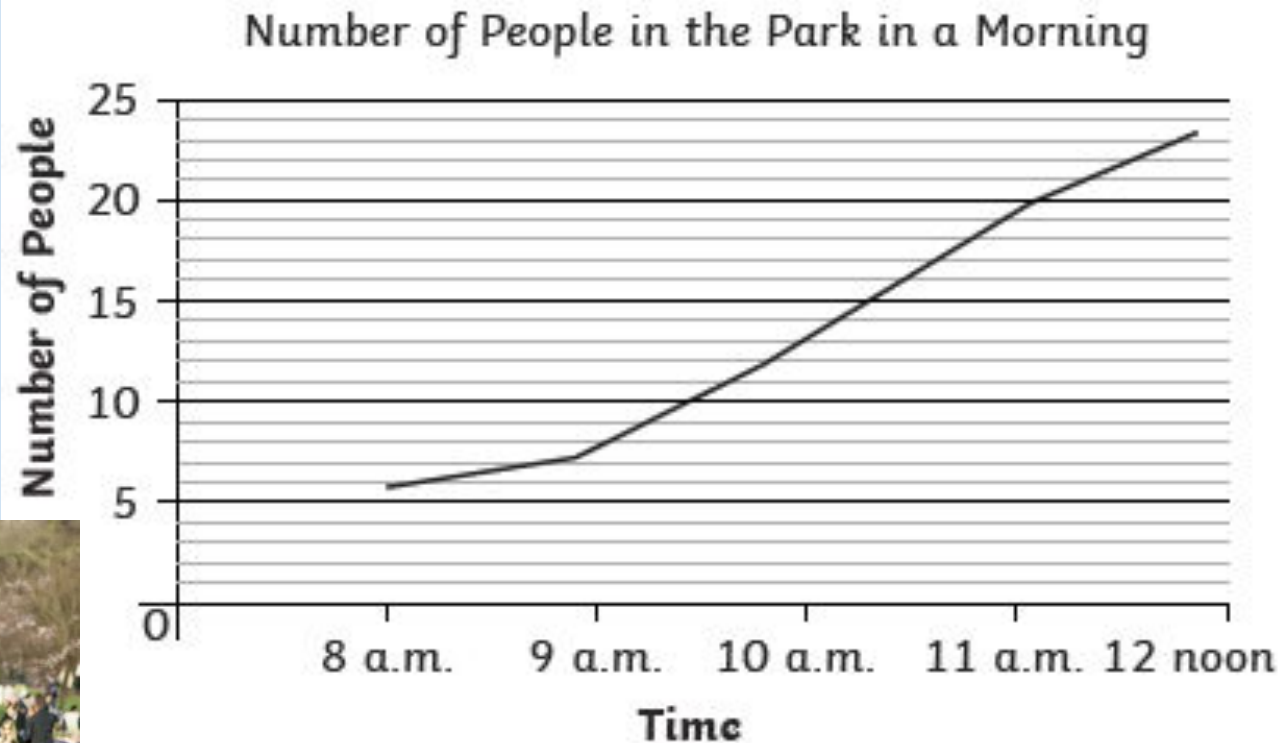
This graph shows the number of people walking through the park in one morning



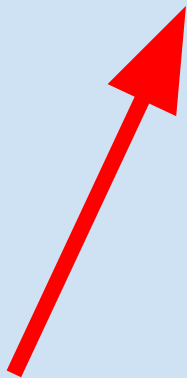
1. Between which times did the visitor numbers increase the most?
2. Lucy said, “The numbers of visitors at 8:30am was 6 and a half.” Why is Lucy wrong?
3. Is there a better way of displaying this data to avoid a mistake like this one?
4. Will said, “I know that only 1 person arrived at the park between 8am and 9am.” Is he correct?

Wednesday 10th June

What other explanations for the change in numbers of visitors are there?



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Session 4



Statistics

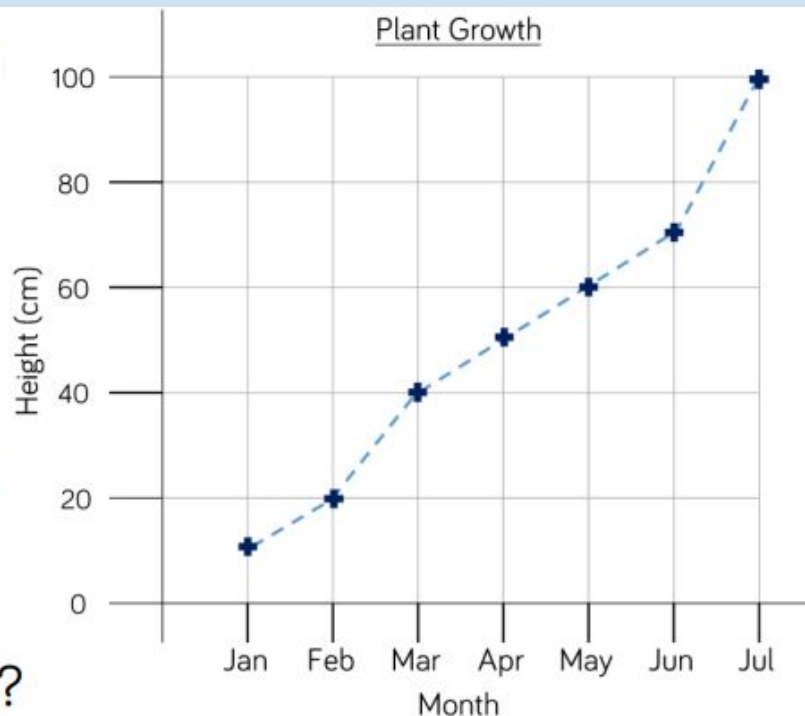
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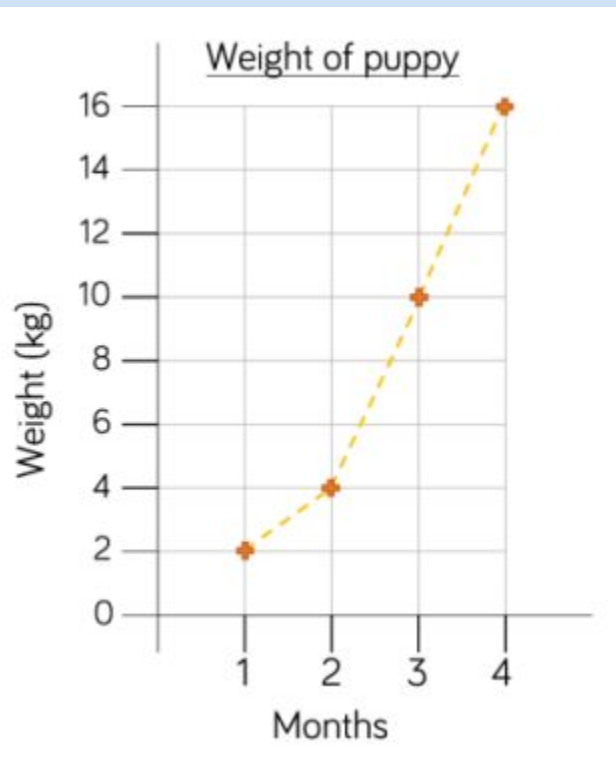
Thursday 11th June

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

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



Thursday 11th June



The graph shows the weight of a puppy as it grows.

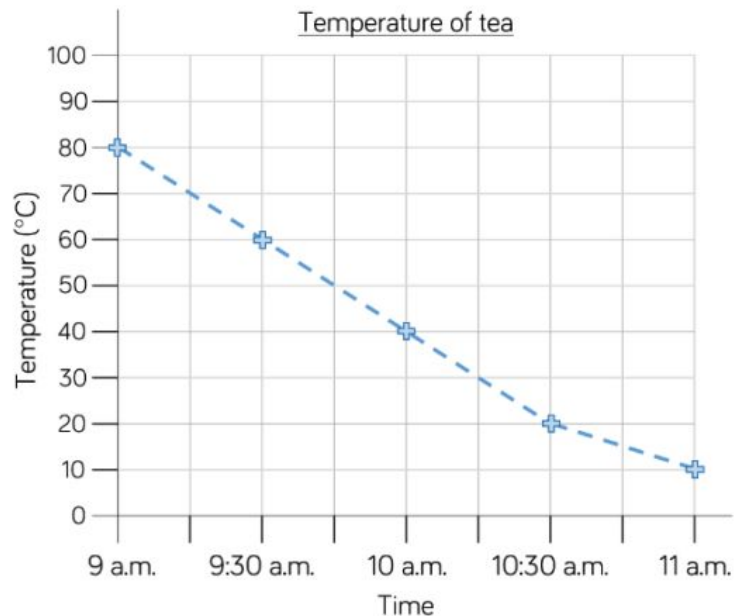
When the puppy is ____ months old the weight is ____kg

Between month ____ and month ____ the puppy increased by ____ kg

You can choose how to fill in the sentence stems

Thursday 11th June

Eva measured the temperature of a cup of tea every 30 minutes for 2 hours. The graph shows Eva's results.



Eva says,

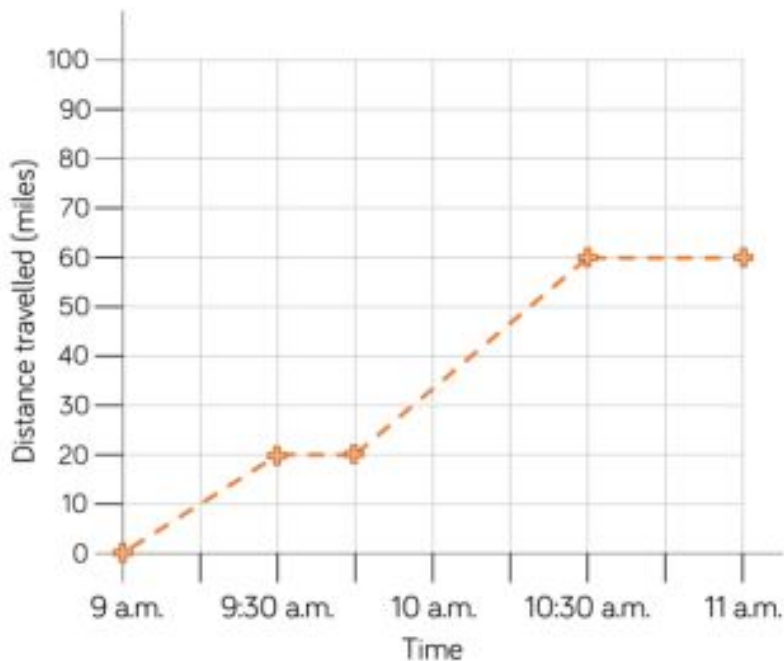


In the first 45 minutes the temperature of the tea had dropped by 20 degrees.

Do you agree with Eva?
Explain why.

Thursday 11th June

Write a story to match the graph.



What was travelling?

A man on a bike?

A postman delivering something?

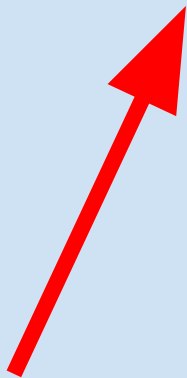
What happens when the line doesn't travel any further?

What happens when the line is increasing?

How can you tell the story?



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Session 5



Friday 5th June

MATHS INVESTIGATION

The Mystery of the Missing Tennis Racket



Have a go at this mystery!
Solving the clues as you work your way through each maths challenge!

Answers

08.06.20

1. X axis = horizontal
Y axis is vertical

You would look at where the lines meet and check the other axis for the time or temperature.

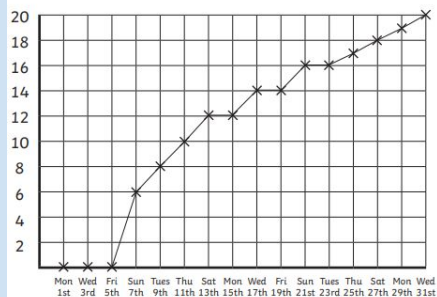
2.



Sunflower Line Chart

Here is a line graph showing a sunflower's growth.

Its height was measured every two days.



Answers

1. 21 days
2. 3cm
3. The plant has yet to grow above ground.
4. a) 10cm
b) 14cm
c) 19cm

09.06.20

1. Graph A The height of the rocket increases then decreases quickly again, returning to a height of 0 at 5 seconds. Example story: A bird flew up from the ground. It continued to fly upwards for 5 seconds then flew at the same height for another 3 seconds
2. Tommy is incorrect because you cannot have 1.5 dogs. A better way of presenting this data would be using a bar chart, pictogram or table because the data is discrete

Answers

10.06.20

- 1) *10 a.m. and 11 a.m. The line increases most steeply.*
- 2) *There can't be half a person in a park - this is discrete data.*
- 3) *Children should suggest bar charts or tables as a way of presenting discrete data and show appropriate charts and graphs displaying the data.*
- 4) *No - she can't know this for certain. Example: 3 people could have left and 4 people could have arrived.*

11.06.20

60cm
April
60cm
30cm

11.06.20

I do not agree with Eva. At 9 a.m. the temperature was 80 degrees and at 9.45 a.m. the temperature was 50 degrees, so it had dropped 30 degrees not 20 degrees.

Mo drove 20 miles in his lorry. At half past 9 he had a 15 minute rest then drove for another 30 miles until he reached his destination at 10:30 a.m.