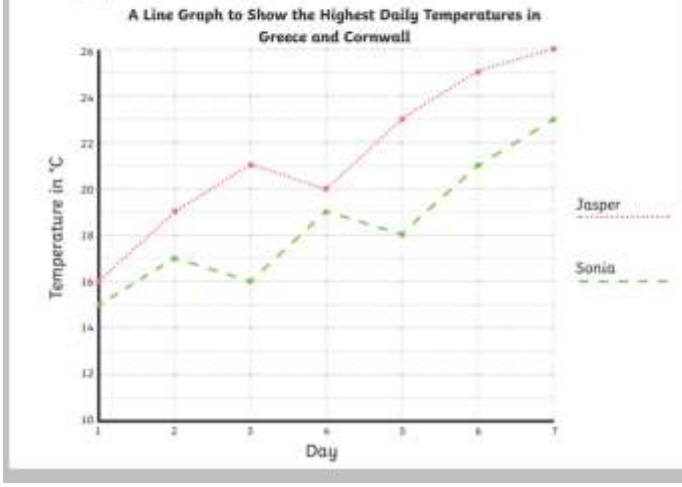
Y4 – Tuesday – Statistics

LO: interpret line graphs

Jasper went on his summer holiday to Greece. Sonia went on her summer holiday to Cornwall. Here is a line graph showing the highest daily temperature on each day of their summer holidays.

Use the graph to answer the questions.



1. What was the temperature on day 4 of Jasper's holiday? **20°C**	2. What was the temperature on day 1 on Sonia's holiday? **15°C**
3. What was the difference in temperature between Greece and Cornwall on day 3? **5°C**	4. How much warmer was it in Greece than Cornwall on day 7? **3°C**
5. On which day was the temperature of Sonia's holiday 21°C? **Day 6**	6. On which day did the temperature in Greece decrease? **Day 4**

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

1. When the puppy is 3 months old, what is its weight? **10kg**

2. How old was the puppy when it weighed 4kg? **2 months**

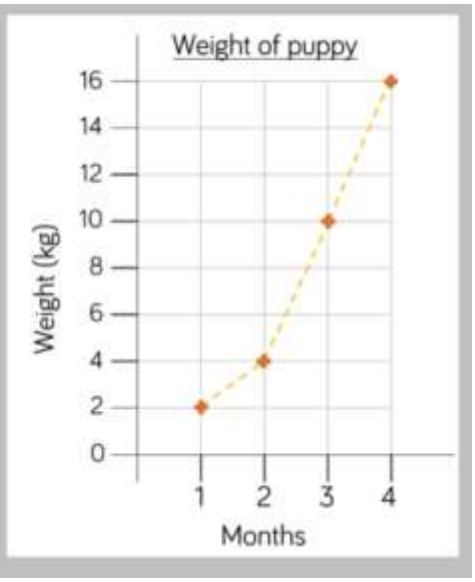
3. Between month 2 and 4, how much did the weight of the puppy increase? **12kg**

4. Did the puppy's weight increase more quickly between month 1 and 2 or between month 2 and 3? Explain your answer.

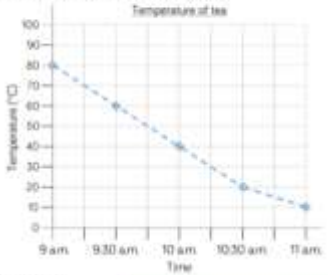
Its weight increased by 2kg between months 1 and 2.

Its weight increased by 6kg between months 2 and 3.

Its weight increased more quickly between months 2 and 3.



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



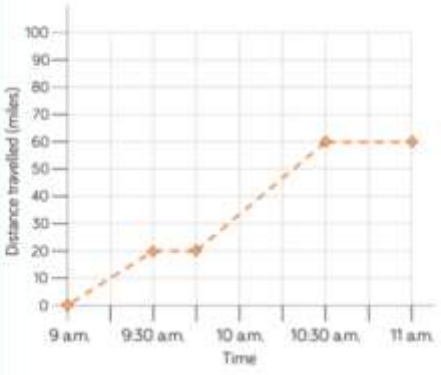
Eva says,

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

Do you agree with Eva?
Explain why.

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.

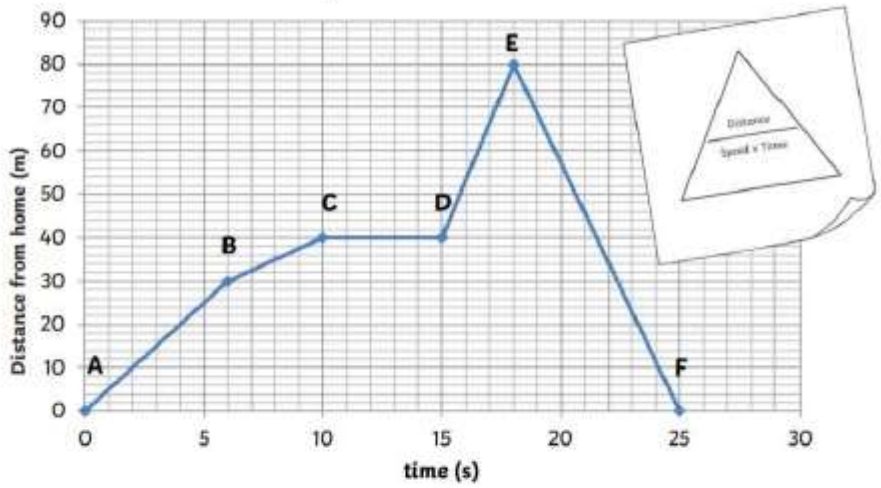
Write a story to match the graph.



Example story:
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.

Y4 – Statistics – Line Graphs – CHALLENGING Tuesday

Distance Time Graphs



The graph shows the journey of a cyclist.

1a. How far has the cyclist travelled between points A and B? 30m

1b. How far did the cyclist travel throughout his entire journey? 160m

2a. Which word best describes the cyclist's speed between points C and D?

slow very slow stationary quick very quick

2b. Which word best describes the cyclist's speed between points D and E?

slow very slow stationary quick very quick

2c. Which word best describes the cyclist's speed between points B and C?

slow very slow stationary quick very quick

3a. Between which two points is the cyclist travelling the fastest? D and E

3b. Between which two points is the cyclist travelling the slowest? B and C