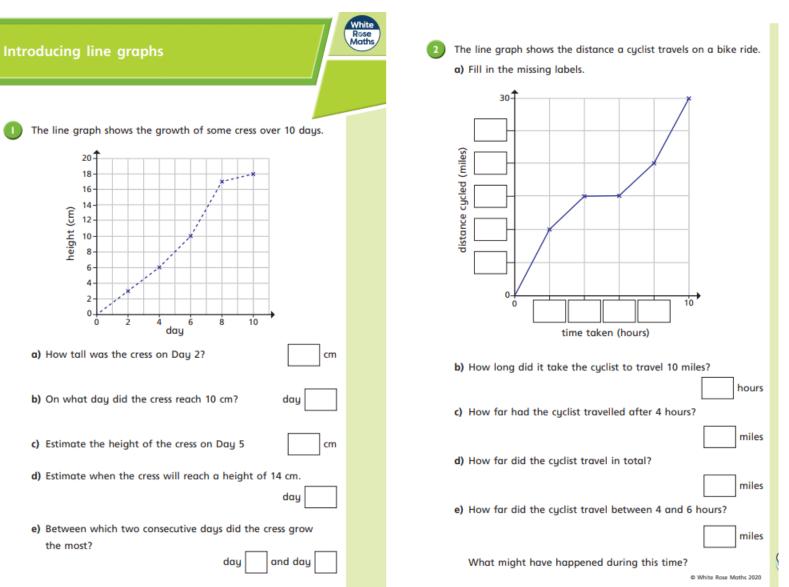
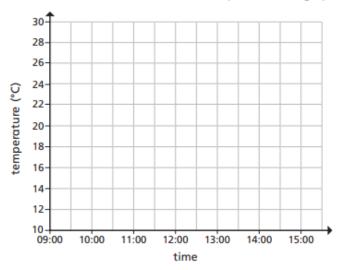
## Thursday 2nd July Y4 Maths

Good morning Year 4s, for maths today, please go to <a href="https://whiterosemaths.com/homelearning/year-4/">https://whiterosemaths.com/homelearning/year-4/</a> and find **Summer term** - week 10 -Lesson 3 Watch the teaching video 'Introducing line graphs' and then complete the worksheet and the challenge below.



Time	09:00	10:00	11:00	12:00	13:00	14:00	15:00
Temperature (°C)	14	16	20	26	24	20	18

a) Use the information in the table to complete the line graph.



Key Monday \_\_\_\_\_ Tuesday \_\_\_\_\_

b) On Tuesday, the following temperatures were recorded.

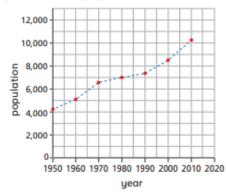
Time	09:00	10:00	11:00	12:00	13:00	14:00	15:00
Temperature (°C)	13	16	21	22	22	19	17

Add the new information to your line graph using a different colour and complete the key.

c) At what time was it hotter on Tuesday than on Monday?



The graph shows the population of a town from 1950 to 2010



a) Circle the correct word to complete the statement.

The population of the town increased / decreased from 1950 to 2010

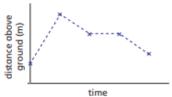
b) Estimate the highest recorded population.

c) In what year did the population first reach 7,000?

d) Estimate the population in 1970

e) Estimate the population in 2006

5 The line graph and bar chart both show the distance above ground of a bird.

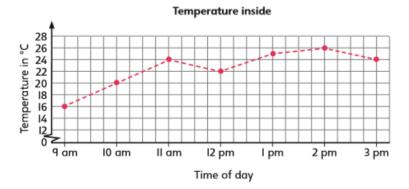


ground (m)

Which representation is more appropriate? Explain your choice to a partner.

## Challenge

This line graph shows the temperature inside Emily's house on Tuesday.

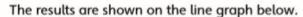


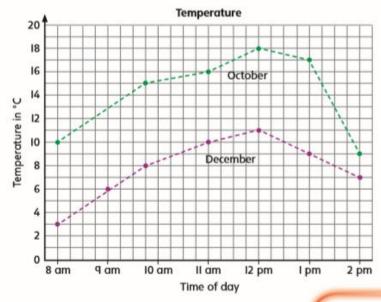
- a) What was the temperature at II am?
  - b) What was the temperature at I pm?
  - c) What was the temperature at 2:30 pm?
  - d) At what time was it the warmest inside Emily's house?
  - e) At what time was the temperature 21 °C?
- For how long is the temperature above 24 °C in Emily's house?

I am going to start by going across from the temperature on the vertical axis.



The temperature in a small town was measured on the first day of October and the first of December.





- a) What was the temperature at midday on I December?
- b) What is the difference in the temperature at 2 pm on I December and 2 pm on I October?
- c) What is the same and what is different about the temperature on I October and I December?

Line graphs can show more than one set of data. Each set of data has its own line.



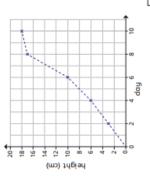


The line graph shows the distance a cyclist travels on a bike ride.

a) Fill in the missing labels.

Rose

10 days. the growth of some cress over



5 distance cycled (miles)

was the cress on Day 2?

b) On what day did the

9 fisp

c) Estimate

When the cress will reach a height of 14 cm. d) Estimate

8

days did the cress grow

e) Between w the most?

 $\frac{1}{2} \left( \frac{1}{2} \sin \frac{1}{2} \sin \frac{1}{2} \right)$ 

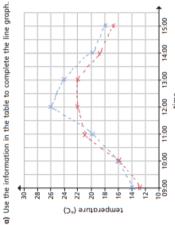
0 30 and Chours? How long did it take the cyclist to travel 10 miles? What might have happened during this time? d) How far did the cyclist travel in total?

míles

miles

3 The table shows the temperature outside on Monday.

Time	00:60	10:00	11:00	09:00 10:00 11:00 12:00 13:00 14:00 15:00	13:00	14:00	15:00	
Temperature (°C)	14	16	20	26	24	20	18	
				'		,		



Key Monday -

b) On Tuesday, the following temperatures were recorded.

Temperature (°C) 13 16 21 22	09:00 10:00 11:00 12:00 13:00 14:00 15:00	14:00 15:0
	_	19 17

(m) bruorg

Add the new information to your line graph using a different colour and complete the key.

At what time was it hotter on Tuesday than on

population of a town from 1950 to 2010 The graph shows the noitoluqoq

town increased / decreased from a) Circle the correct word The population of the 1950 to 2010

b) Estimate the highest recorded population.

c) In what year did the

e) Estimate the population in 2006

d) Estimate the population in 1970

6

The line graph and bar chart both show ground of a bird. distance above (m) bruorg

Which representation is more appropriate? Explain your choice to a partner.

## Emily's House - Answers

1 a): The temperature was 24 °C at 11 am.

1 b): The temperature was 25 °C at 1 pm.

1 c): The temperature was 25 °C at 2:30 pm.

1 d): It was warmest at 2 pm.

1 e): The temperature was 21 °C at 10:15 am.

2: It is above 24 °C for approximately 2 and a half hours (from 12:30 pm to 3 pm).

3 a): The temperature was 11 °C.

3 b): The difference is 2 °C.

3 c): For example:

Same: It was warmest at 12 pm on both days.

Different: It was warmer at 8 am than it was at 2 pm on 1 October, but the opposite is true of 1 December (warmer at 2 pm than at 8 am).