

Maths Planning and Ideas



Week Commencing: 22.6.20

Year Group: Year 5

This week's planning will be recapping previous learning from earlier this year. The idea behind this is to consolidate children's understanding of key concepts in order to help prepare them for next year. We are aware that some children may already have a sound understanding of some of these areas of learning, while others will still need to practise them. This week, there are no specific fluency, reasoning and problem solving activities as this week's lessons mainly all involve solving problems.

Times Table Rockstars website - <https://ttrockstars.com/>

	Monday	Tuesday	Wednesday	Thursday	Friday
Area of Learning	LC: Can you solve multi-step addition and subtraction problems?	LC: Can you read and interpret line graphs?	LC: Can you draw line graphs?	LC: Can you line graphs to solve problems?	Arithmetic Test
Activity	<p>Starter – Times Table Rockstars activities</p> <p>Main Teaching This lesson uses the revision you did last week (on addition and subtraction column methods) to help you apply it to problems. Watch the video to remind you of some ways you could work out word problems. https://vimeo.com/428001969</p> <p>Activity Answer the word problems on the sheet below. The answers are included on the next page.</p>	<p>Starter – Times Table Rockstars activities</p> <p>Main Teaching We briefly learned about line graphs earlier in the year. Use this video to remind yourself. https://vimeo.com/428002041</p> <p>Activity Answer the problems about the four different line graphs. The questions get slighter harder as you progress through so just try your best.</p>	<p>Starter – Times Table Rockstars activities</p> <p>Main Teaching This lesson is all about drawing your own line graphs. The graph paper is on the sheet below, put you need a pencil and ruler (or even just something straight like the side of something) to draw with. Watch the video. https://vimeo.com/428002106</p> <p>Activity Draw the line graph to plot the height of the child. If you are feeling confident, try the Dive Deeper activity – you will need two different coloured pencils (or a pencil and pen) to do this.</p>	<p>Starter – Times Table Rockstars activities</p> <p>Main Teaching This lesson is similar to Tuesday's lesson. Today, you are using line graphs to solve different problems. https://vimeo.com/428002182</p> <p>Activity Answer the questions about the two line graphs. If you would like more of these types of questions, try answering the questions on this website link below: https://uk.ixl.com/math/year-5/interpret-line-graphs</p>	<p>Starter – Times Table Rockstars activities</p> <p>Complete the arithmetic test. You may want to complete this on a scrap piece of paper as there are lots of pages to print out. The answers are included at the end.</p>

Monday Worksheet - Solve these addition and subtraction word problems. Complete your working out anywhere on the page or on a separate piece of paper. Feel free to draw bar models if this helps you.

1. At the beginning of the year, there was £8452 in the school budget. By the end of the year, £7864 had been spent. How much is left in the school fund?
2. At a weekend summer fair, £14,673 was raised on the Saturday and £16,432 was taken on the Sunday. At a similar fair in winter, £18,347 was raised on the Saturday and £10,284 was taken on the Sunday.
 - i) How much was raised altogether in both fairs?
 - ii) How much more was raised at the summer fair than at the winter fair?

3. Here are some distances:

A plane flies from London to Rome and then on to Paris.
How much further is this than flying direct to Paris from London?

Journey	Distance (kilometres)
London to Paris	934 km
London to Rome	1461 km
Paris to Rome	1186 km

4. A ship arrived at a port carrying 49,657 tonnes of cargo. 3598 tonnes of cargo were unloaded. The ship was then loaded with 35,861 tonnes before leaving the port. How much cargo was on the ship?
5. A company has two factories that make mobile phones. The company records the number of mobile phones made each year in a table.

	Hillside Factory	Green Lane Factory
2012	341675	275643
2013	294631	413054

- a) How many more mobile phones were made in 2013 than in 2012 by the Green Lane Factory?
- b) How many more mobile phones were made by the Hillside factory than the Green Lane Factory in 2012?

Monday Worksheet – Answers

1-At the beginning of the year, there was £8452 in the school budget. By the end of the year, £7864 had been spent. How much is left in the school fund? **£558**

2-At a weekend summer fair, £14,673 was raised on the Saturday and £16,432 was taken on the Sunday.
At a similar fair in winter, £18,347 was raised on the Saturday and £10,284 was taken on the Sunday.

i)How much was raised altogether in both fairs? **£59,736**

ii) How much more was raised at the summer fair than at the winter fair? **£2474**

3-Here are some distances:

A plane flies from London to Rome and then on to Paris.

How much further is this than flying direct to Paris from London? **1461 km**

Journey	Distance (kilometres)
London to Paris	934 km
London to Rome	1461 km
Paris to Rome	1186 km

4-A ship arrived at a port carrying 49,657 tonnes of cargo. 3598 tonnes of cargo were unloaded. The ship was then loaded with 35,861 tonnes before leaving the port. How much cargo was on the ship? **81,920 tonnes**

5-A company has two factories that make mobile phones.

The company records the number of mobile phones made each year in a table.

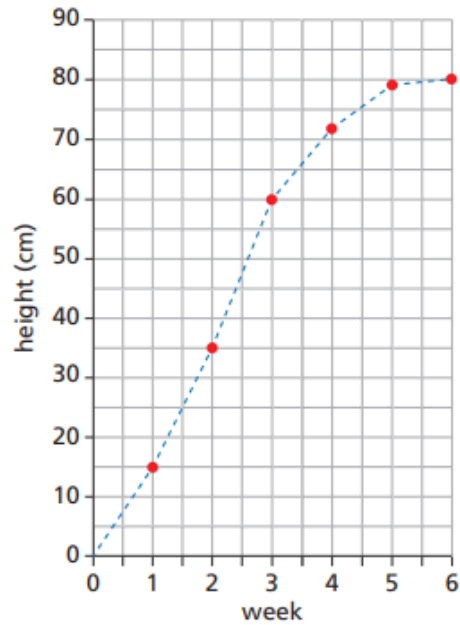
	Hillside Factory	Green Lane Factory
2012	341675	275643
2013	294631	413054

a) How many more mobile phones were made in 2013 than in 2012 by the Green Lane Factory? **137,411**

b) How many more mobile phones were made by the Hillside factory than the Green Lane Factory in 2012? **66,032**

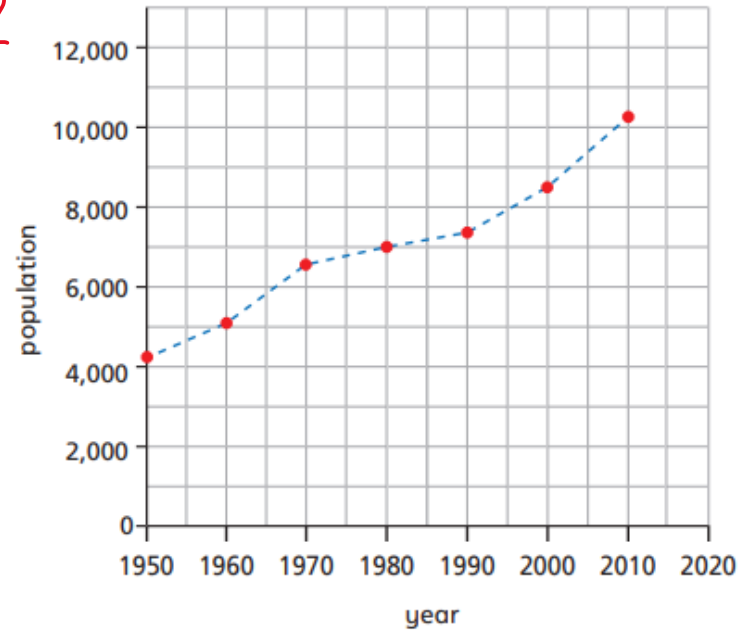
Tuesday Worksheet (page 1)

The graph shows the height of a sunflower on the first day of each week for 6 weeks.



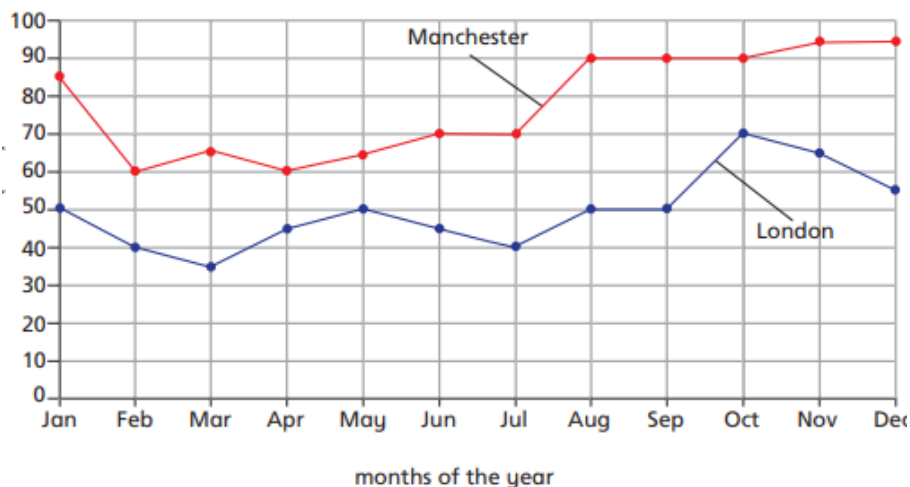
- a) What is the height of the sunflower at the start of week 3?
- b) What is the height of the sunflower at the start of week 2?
- c) Eva thinks the height of the sunflower at the start of week 4 is 75 cm. Explain why Eva is wrong.
-

The graph shows the population of a town at the end of each decade from 1950 to 2000



- a) What was the population at the end of 1980?
- b) What was the population at the end of 2000?
- c) Can you accurately tell the population in 1991? Why?
-

3 This graph shows the average rainfall in London and Manchester to the nearest 5 mm.



a) How many millimetres of rain falls in London in May?

b) Which months are the driest in Manchester?

c) Which is the wettest month in London? _____

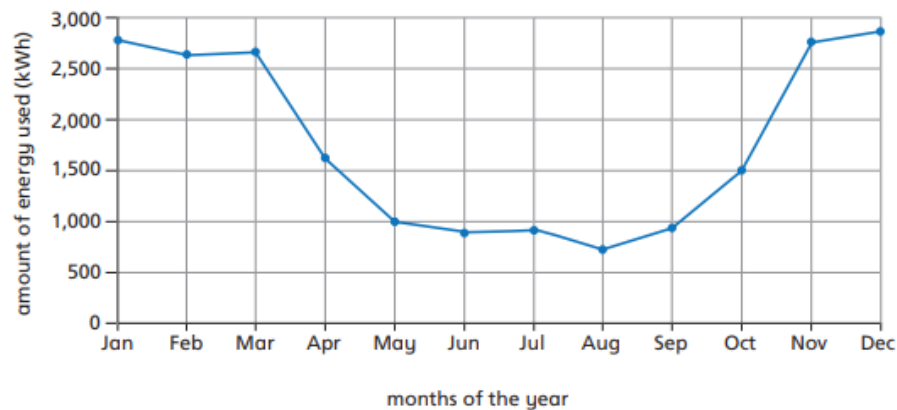
d) In January, how much more rainfall is there in Manchester than London?

Tuesday Worksheet (part 2)

4

4 Energy is measured in kWh (kilowatt hours).

This graph shows the amount of energy being used at different times of the year in one household.



Describe three things that you know from looking at the graph.

Tuesday Answers

1 a) What is the height of the sunflower at the start of week 3?

60cm

b) What is the height of the sunflower at the start of week 2?

35cm

c) Eva thinks the height of the sunflower at the start of week 4 is 75 cm. Explain why Eva is wrong.

She has read the graph wrong, it's between 70cm and 75cm.

2 a) What was the population at the end of 1980?

7,000

b) What was the population at the end of 2000?

8,500

c) Can you accurately tell the population in 1991? Why?

No. Various reasons acceptable e.g. it's only a bit into a square, it wasn't measured in that year.

3 a) How many millimetres of rain falls in London in May?

50mm

b) Which months are the driest in Manchester?

February and April

c) Which is the wettest month in London? October

d) In January, how much more rainfall is there in Manchester than London?

35mm

4
Various answers

Describe three things that you know from looking at the graph.

e.g. Less energy is used in the middle of the year.

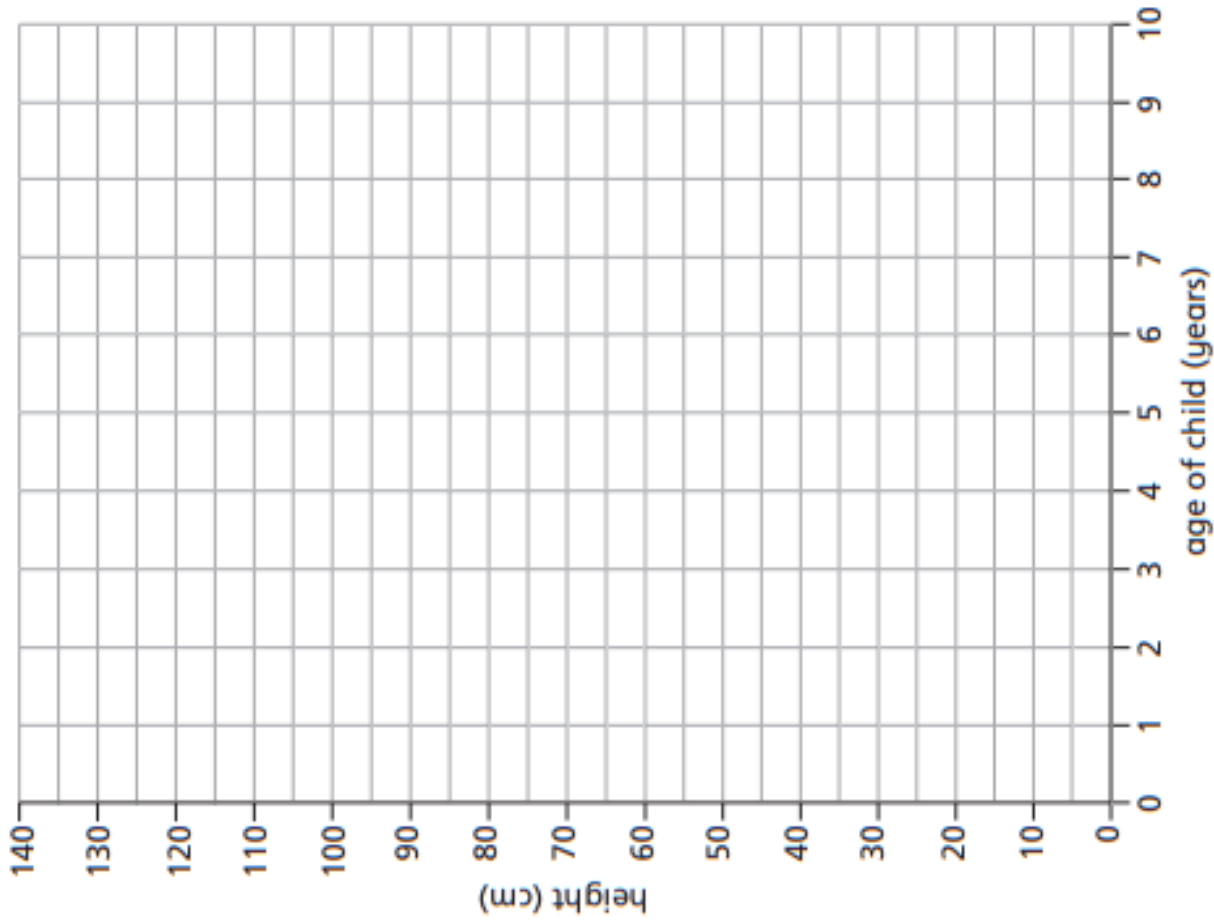
The least energy is used in August.

The most energy is used in December.

The table shows the height of a child from 0 to 10 years of age.

Age of child	0	1	2	3	4	5	6	7	8	9	10
Height of child (cm)	50	76	86	95	102	110	115	122	128	133	138

a) Draw a line graph to represent this data.



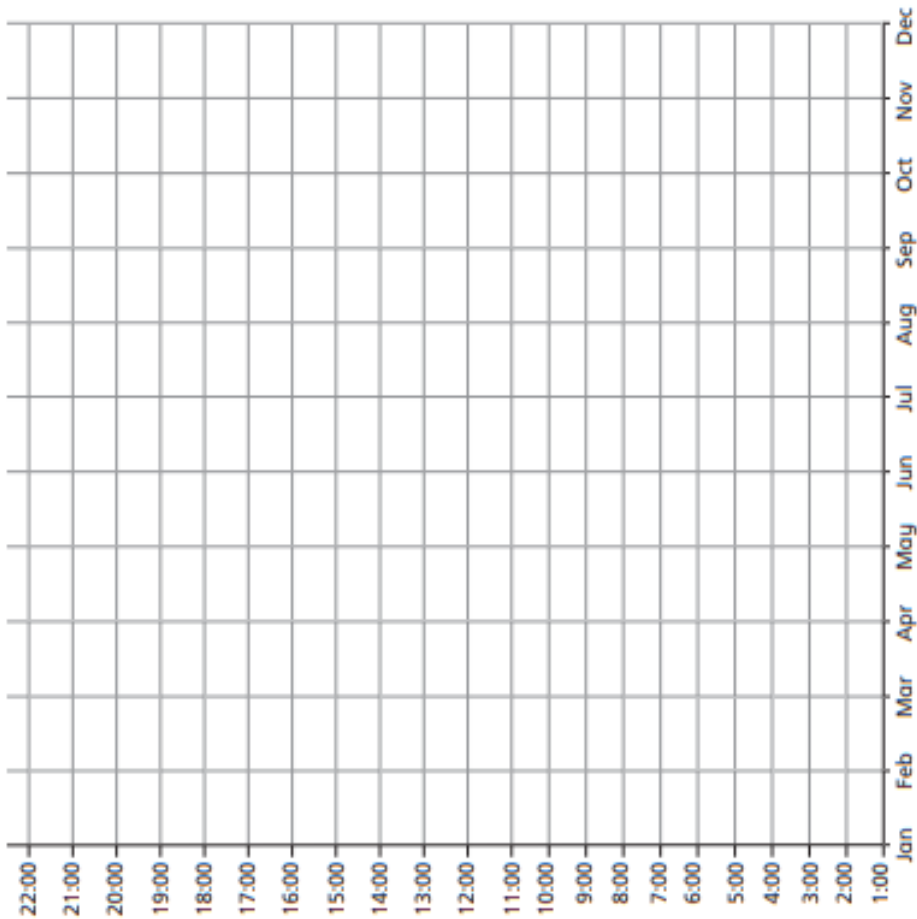
Wednesday (Dive Deeper)

This table shows the time for sunrise and sunset in a town on the first day of each month.

	Jan	Feb	Mar	Apr	May	Jun
Sunrise	8:00	7:30	6:30	6:00	5:30	5:00
Sunset	16:00	16:30	17:30	19:30	20:30	21:00

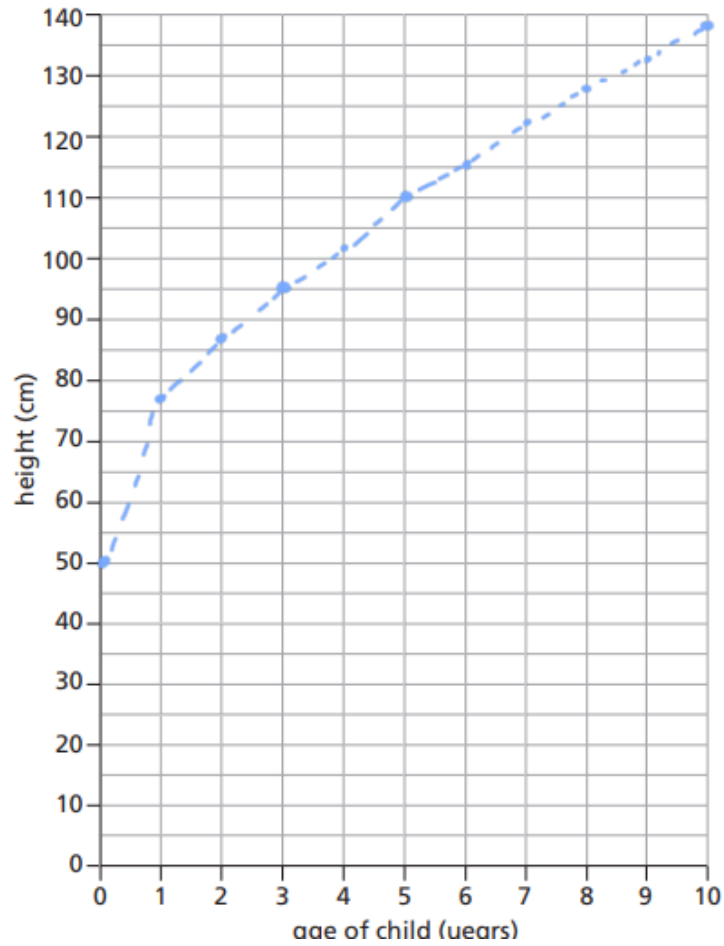
	Jul	Aug	Sep	Oct	Nov	Dec
Sunrise	4:30	5:00	6:00	7:00	7:00	7:30
Sunset	21:30	20:30	19:30	18:30	16:30	16:00

Plot the information into one line graph with two lines.

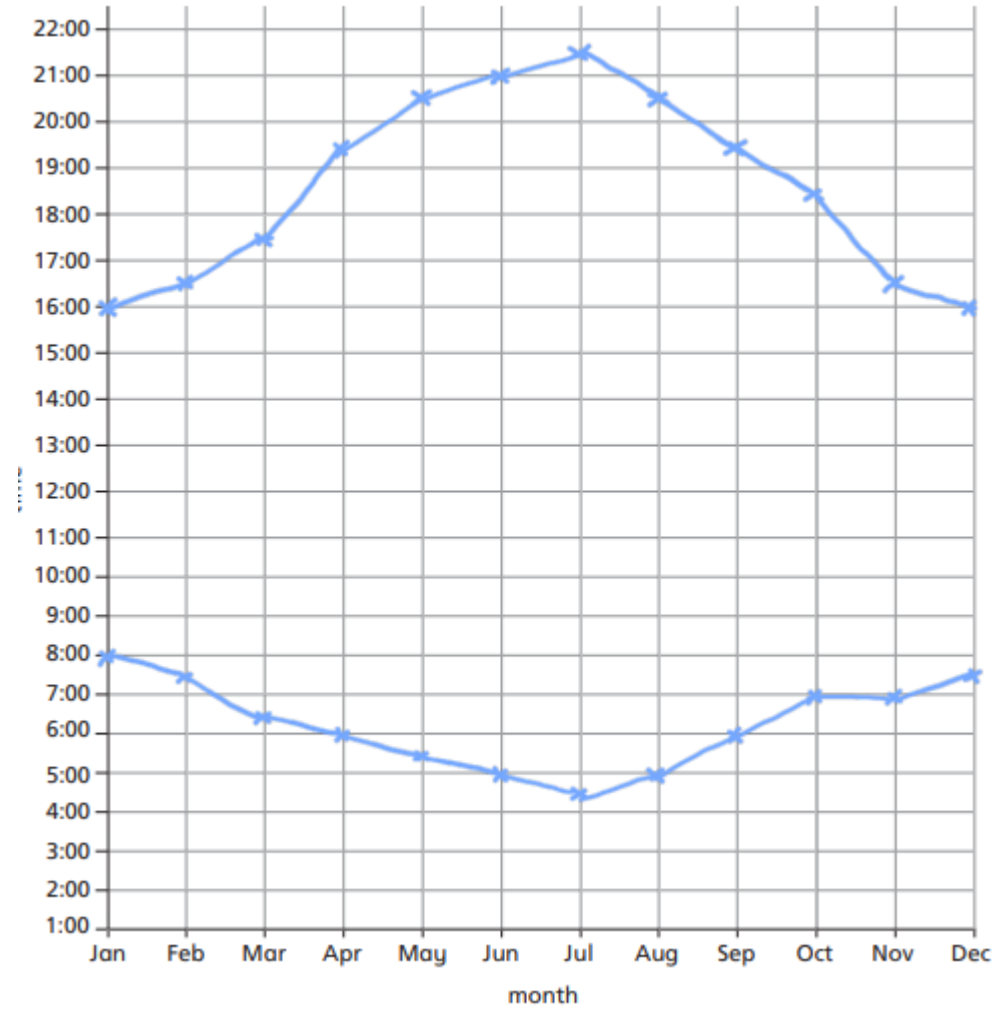


Wednesday Answers

a) Draw a line graph to represent this data.



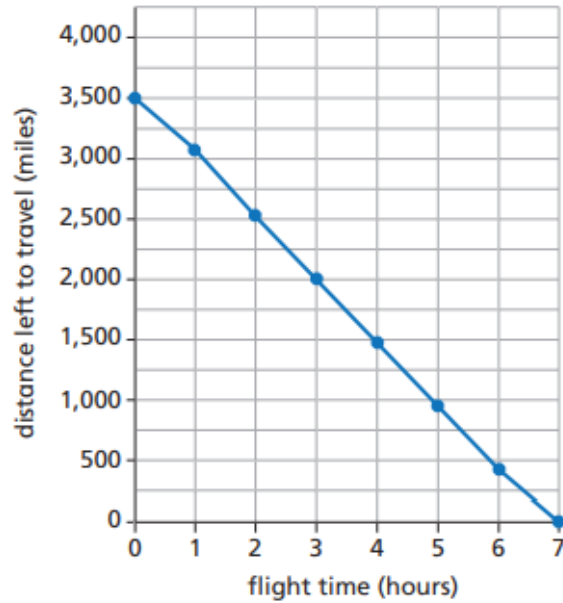
Plot the information into one line graph with two lines.



This graph shows how many miles an aeroplane has left to travel each hour on its journey from London to New York.

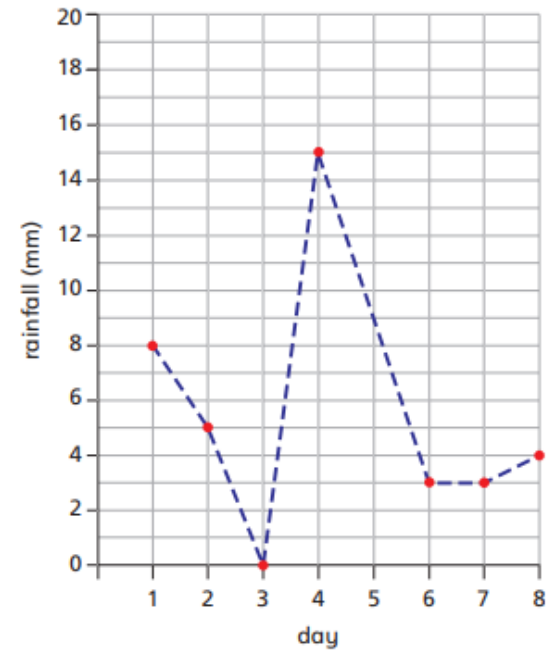


Thursday



- a) How many hours is the flight?
- b) How many miles is the journey from London to New York?
- c) After 4 hours, how many more miles are left to travel?
- d) How long does it take to fly the final 1,000 miles?

The graph shows the rainfall in the first 8 days in October.



- a) How many millimetres of rain fell on the 7th October?
- b) It rained every day in the first 8 days in October.

Is this statement correct? _____

Explain your answer.

Thursday Answers

a) How many hours is the flight?

7

b) How many miles is the journey from London to New York?

3,500

c) After 4 hours, how many more miles are left to travel?

1,500

d) How long does it take to fly the final 1,000 miles?

2 hours

a) How many millimetres of rain fell on the 7th October?

3

b) It rained every day in the first 8 days in October.

Is this statement correct? NO

Explain your answer.

It didn't rain on the 3rd