

Maths Planning and Ideas



Week Commencing: 29th June 2020

Year Group: 4

Mathematical Focus: Statistics

	Monday	Tuesday	Wednesday	Thursday	Friday
Area of Learning	Interpreting Charts	Comparisons – Sum and Difference	Introducing Line Graphs	Line Graphs	Friday Maths Challenge
Activity	<p>Starter:</p> <p>Times Table Rockstar</p> <p><i>Battle of the Bands and Garage challenges have been set for Y4 children.</i></p> <p>Main: White Rose Maths - Watch Summer Week 10 Lesson 1</p> <p>https://whiterosemaths.com/homelearning/year-4/</p> <p>You might want to pause it and make notes. Or even rewind and watch bits again.</p> <p>Independent:</p> <p>The questions below the plan can be completed by children independently.</p>	<p>Starter:</p> <p>Times Table Rockstar</p> <p><i>Battle of the Bands and Garage challenges have been set for Y4 children.</i></p> <p>Main: White Rose Maths - Watch Summer Week 10 Lesson 2</p> <p>https://whiterosemaths.com/homelearning/year-4/</p> <p>You might want to pause it and make notes. Or even rewind and watch bits again.</p> <p>Independent:</p> <p>The questions below the plan can be completed by children independently.</p>	<p>Starter:</p> <p>Times Table Rockstar</p> <p><i>Battle of the Bands and Garage challenges have been set for Y4 children.</i></p> <p>Main: White Rose Maths - Watch Summer Week 10 Lesson 3</p> <p>https://whiterosemaths.com/homelearning/year-4/</p> <p>You might want to pause it and make notes. Or even rewind and watch bits again.</p> <p>Independent:</p> <p>The questions below the plan can be completed by children independently.</p>	<p>Starter:</p> <p>Times Table Rockstar</p> <p><i>Battle of the Bands and Garage challenges have been set for Y4 children.</i></p> <p>Main: White Rose Maths - Watch Summer Week 10 Lesson 4</p> <p>https://whiterosemaths.com/homelearning/year-4/</p> <p>You might want to pause it and make notes. Or even rewind and watch bits again.</p> <p>Independent:</p> <p>The questions below the plan can be completed by children independently.</p>	<p>Starter:</p> <p>Times Table Rockstar</p> <p><i>Battle of the Bands and Garage challenges have been set for Y4 children.</i></p> <p>Main: White Rose Maths - Watch Summer Week 10 Lesson 5 – Daily Challenge</p> <p>https://whiterosemaths.com/homelearning/year-4/</p> <p>Good luck!</p>

<p>Answers:</p> <p>Answers can be found here:</p> <p>https://resources.whiterosemaths.com/wp-content/uploads/2020/06/Lesson-1-Answers-Interpret-charts.pdf</p> <p>No peeking until after you have had a go.</p>	<p>Answers:</p> <p>Answers can be found here:</p> <p>https://resources.whiterosemaths.com/wp-content/uploads/2020/06/Lesson-2-Answers-Comparison-sum-and-difference.pdf</p> <p>No peeking until after you have had a go.</p>	<p>Answers:</p> <p>Answers can be found here:</p> <p>https://resources.whiterosemaths.com/wp-content/uploads/2020/06/Lesson-3-Answers-Introducing-line-graphs-1.pdf</p> <p>No peeking until after you have had a go.</p>	<p>Answers:</p> <p>Answers can be found here:</p> <p>https://resources.whiterosemaths.com/wp-content/uploads/2020/06/Lesson-4-Answers-Line-graphs-1.pdf</p> <p>No peeking until after you have had a go.</p>	
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29.06.2020

LC: Can you interpret charts?

Interpret charts



1 The pictogram shows the number of ice creams sold in a shop.

Ice cream flavour	Number of ice creams sold
vanilla	
chocolate	
strawberry	
mint choc	

Key = 2 ice creams

a) How many vanilla ice creams were sold?

b) The shop sold 6 chocolate ice creams.

What mistake has Annie made?

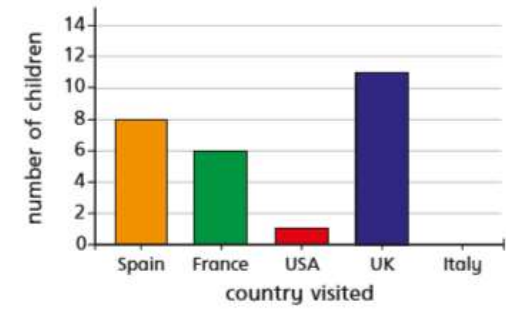
c) How many chocolate ice creams were sold?

d) How many strawberry ice creams were sold?

e) Seven mint choc ice creams were sold. Complete the pictogram to show this.



2 The bar chart shows the number of children who went on holiday to some different countries.



a) Complete the table using the information in the bar chart.

Country	Number of children visiting
Spain	
France	
USA	
UK	
Italy	

b) Complete the pictogram using the information in the bar chart.

Country	Number of children visiting
Spain	
France	
USA	
UK	
Italy	

Key = 4 children



3

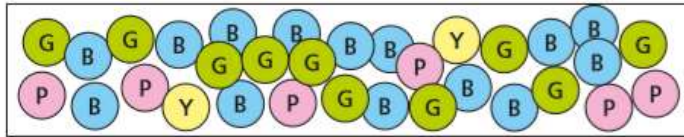


Chart A

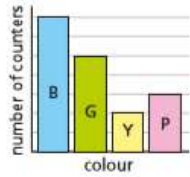


Chart B

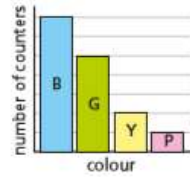
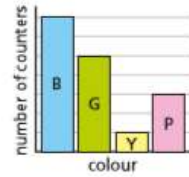


Chart C



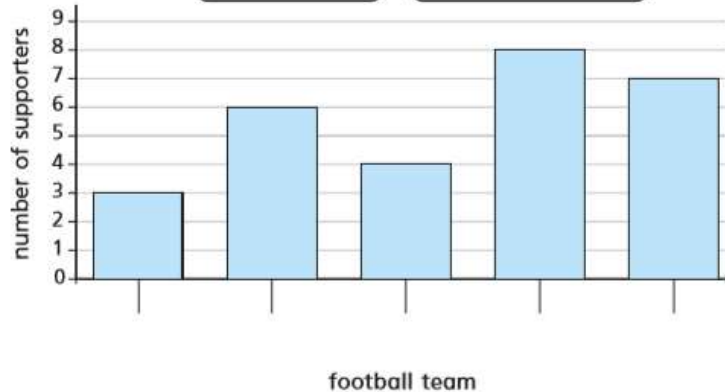
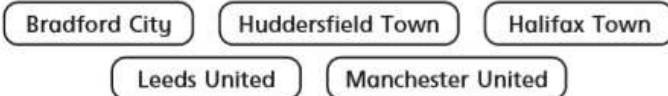
Which chart best represents the picture? _____

Talk to a partner about the reasons for your choice.

4

Use the clues to label the bar chart.

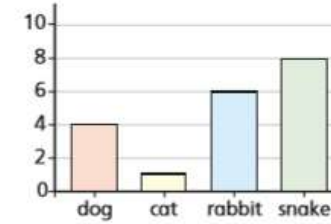
- The number of Huddersfield Town supporters is half the number of Halifax Town supporters.
- More people support Halifax Town than support any other team.
- More people support Manchester United than Leeds United.
- There is 1 less supporter of Bradford City than Halifax Town.



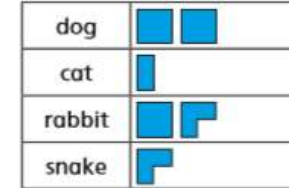
5

Four classes of children were asked what their favourite animals are. Match the tables to the charts.

Class A	
dog	8
cat	2
rabbit	7
snake	12

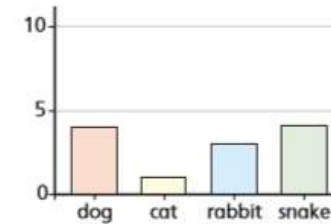


Class B	
dog	4
cat	1
rabbit	3
snake	4

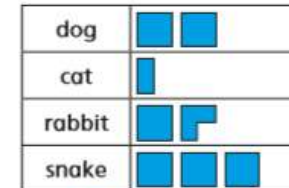


Key = 4 children

Class C	
dog	4
cat	1
rabbit	6
snake	8



Class D	
dog	8
cat	2
rabbit	7
snake	3



Key = 4 children

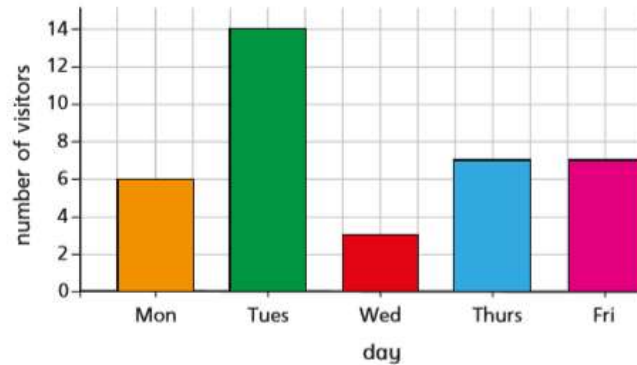
30.06.2020

LC: Can you make comparisons and identify the sum and difference?

Comparison, sum and difference



1 The bar chart shows the number of visitors to a museum in a week.



- a) How many more visitors went to the museum on Tuesday than on Wednesday?
- b) What is the difference between the number of visitors on Monday and the number of visitors on Friday?
- c) What was the total number of visitors for the whole week?
- d) If there were 3 times as many visitors on Saturday as there were on Thursday, how many people visited on Saturday?

2 The pictogram shows the points scored in a game by five teams.

Team	Points
Red	
Blue	
Green	
Yellow	
Pink	

Key = 4 points

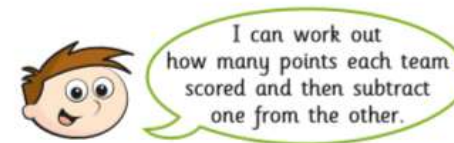
a) Write $<$, $>$ or $=$ to compare the points scored by the teams.

- Red Blue and Green
- Red and Blue Green and Yellow
- Red and Green Yellow and Blue
- Blue and Green Yellow

b) The Pink team scored half the number of points that the Green team scored.

Complete the pictogram for the Pink team.






c) Teddy is working out the difference in points between the Red and Green teams.



Is there another way Teddy could work out the answer?



- 3 Two children are asked to find out how many hours of sunshine there were altogether.

Country	Number of hours sunshine
Spain	
UK	
Italy	
Germany	
Iceland	

Key  = 3 hours

a)



I can find out how many hours sunshine each country has and then add up all the totals.

Use Mo's method to calculate the total hours of sunshine.

hours

b)

I can count how many sunshine symbols there are altogether and multiply that by 3



Use Rosie's method to calculate the total hours of sunshine.

hours

Which method is the most efficient?
Will that always be the case?



- 4 The table shows the number of men and women who watched three different films.

Film	Women	Men	Total
A	364	618	
B	411		895
C	609	255	
Total		1,357	

a) Complete the table.

b) Are these statements true or false?

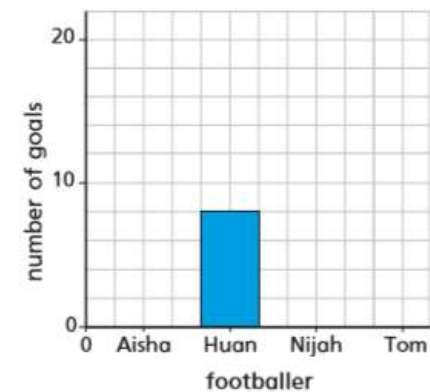
More women than men watched one of the films. _____

Film B was the most popular. _____

- 5 The bar chart represents the number of goals scored by four footballers.

Use the clues to complete the bar chart.

- Tom has scored 13 fewer goals than Aisha.
- Aisha has scored twice as many goals as Huan.
- Huan and Nijah combined have scored a total of 20 goals.



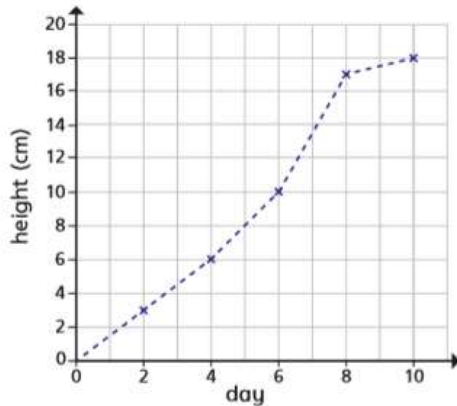
01.07.2020

LC: Can you interpret line graphs?

Introducing line graphs

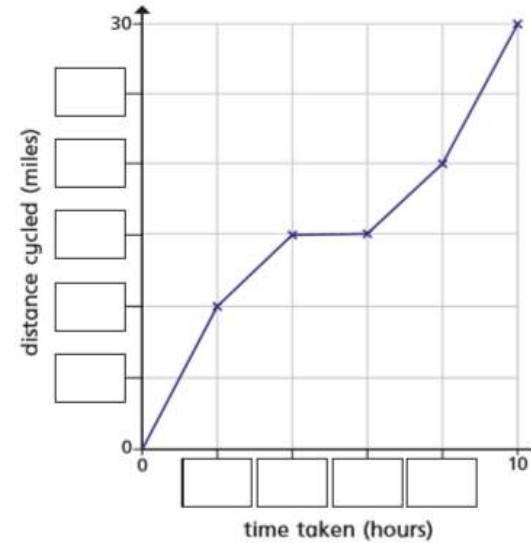


1 The line graph shows the growth of some cress over 10 days.



- a) How tall was the cress on Day 2? cm
- b) On what day did the cress reach 10 cm? day
- c) Estimate the height of the cress on Day 5 cm
- d) Estimate when the cress will reach a height of 14 cm.
day
- e) Between which two consecutive days did the cress grow the most?
day and day

2 The line graph shows the distance a cyclist travels on a bike ride.
a) Fill in the missing labels.



- b) How long did it take the cyclist to travel 10 miles? hours
- c) How far had the cyclist travelled after 4 hours? miles
- d) How far did the cyclist travel in total? miles
- e) How far did the cyclist travel between 4 and 6 hours? miles

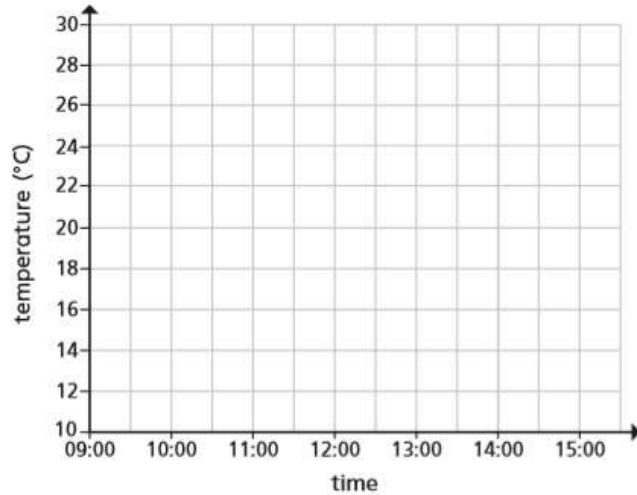
What might have happened during this time?



- 3 The table shows the temperature outside on Monday.

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.

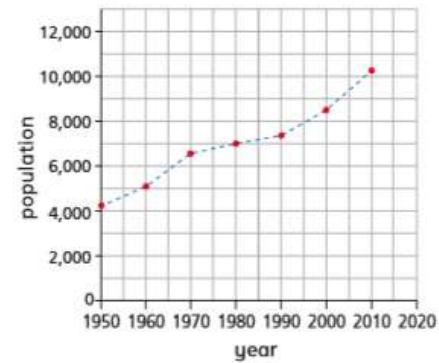
Time	09:00	10:00	11:00	12:00	13:00	14:00	15:00
Temperature (°C)	13	16	21	22	22	19	17

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?



- 4 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

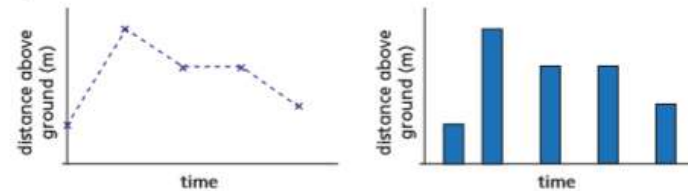
- b) Estimate the highest recorded population.

- 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.



Which representation is more appropriate? _____

Explain your choice to a partner.



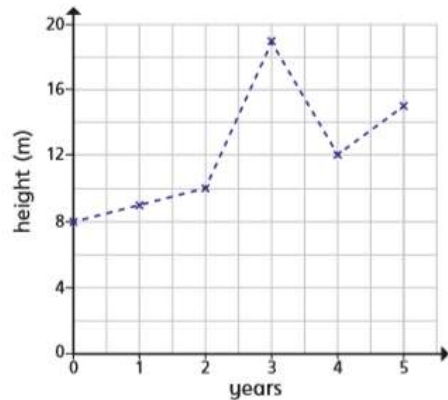
02.07.2020

LC: Can you interpret line graphs?

Line graphs



1 The line graph shows the growth of a tree.



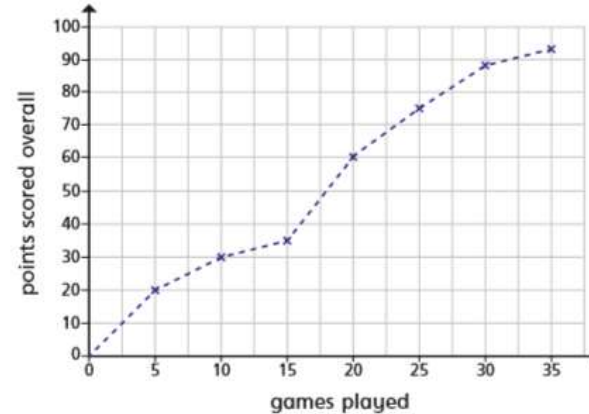
- a) What is the difference in height between the start and end of recording? m
- b) How much did the tree grow between the 2nd and 3rd year? m
- c) What happened in year 3? What might have caused this?
- d) By the 6th year the tree grows to three times the height it was in the 1st year.



The tree will be at the tallest height it has ever been.

Do you agree with Whitney? _____
Explain your answer.

2 The line graph shows the number of points scored over 35 games.

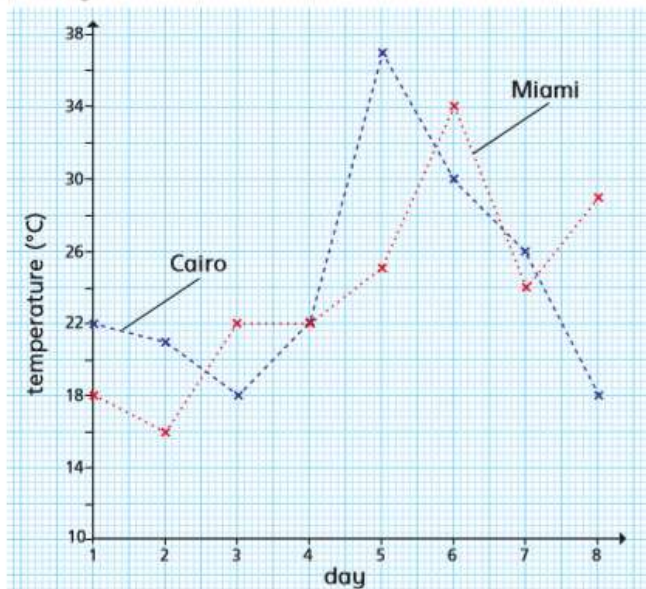


a) Use the line graph to complete the table.

Games	0	5						
Points	0						88	93

- b) How many points were scored between games 10 and 25?
- c) Between which games did the points exactly double? between game and game
- d) Between which games were the least number of points scored? game and game
- e) Estimate how many games it took to score 50 points.

- 3 The line graph shows the temperatures in Miami and Cairo over 8 days.



a) On what day was the temperature the same in both cities?

day

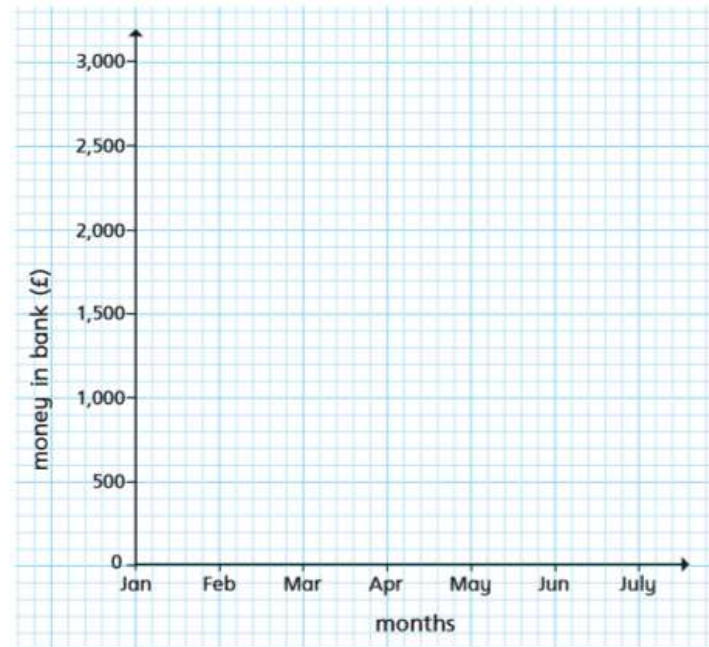
b) What is the difference in temperature between the hottest days in both cities? °C

c) What is the difference between the hottest recorded temperature and the lowest recorded temperature? °C

d) On which days was it warmer in Cairo than Miami?

e) On what day was there the greatest difference in temperature between the two cities?
day

- 4 Use the clues to complete the line graph.



- In February there was £2,800 in the bank, which was the largest overall amount.
- May had the lowest amount.
- In March there was half the amount of February.
- In Jan there was £200 more than March.
- The total of March and April combined was £2,600
- The lowest amount was £2,400 less than the highest amount.
- In July and April there was the same amount of money.
- June = Feb - Mar - May

Compare answers with a partner.



Where can I complete further work?

[Twinkl](#) – Subscription service used by schools is offering a free premium service for teachers, parents and children to use whilst schools are closed. Enter the code **UKTWINKLHELPS** for access to worksheets, PowerPoints and interactive games to support all areas of learning.

[Classroom Secrets](#) – Free Maths, Reading and Grammar home learning packs and interactive resources for all ages.

[White Rose Maths](#) – Free Maths home learning resources for all ages. Watch the videos and try the questions.

[Primary Stars](#) – Free Maths home learning packs for Year 1 and 2.

[BBC Bitesize Primary](#) – Free learning resources available for KS1 and KS2 across all subjects.

[I See Maths](#) – Free daily home maths lessons hosted by Gareth Metcalfe. Follow the link for videos, information and resources.

[Top Marks](#) – Free educational resources and games for English and Maths.

[ICT Games](#) – Free educational resources and games for English and Maths.