Viridis Schools The Federation of Orchard Primary School, Southwold Primary School, Hoxton Garden Primary School

Year 5: Numeracy Day 1 Week 2

Each day, complete your times table starter. Then watch the video lesson, clicking through each round tab then complete the related worksheet.

Times Tables Starter

X	1	2	3	4	5	6	7	8	9	10	11	12
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												

Time how quickly you can complete your times table grid!

Interpreting line graphs

https://classroom.thenational.academy/lessons/interpreting-line-graphs-cmr3ec

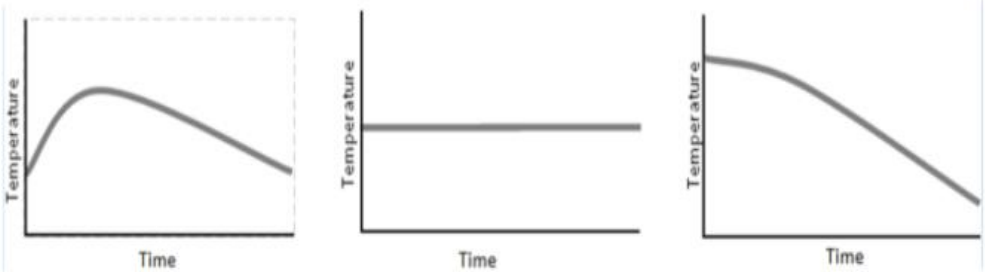
Talk Task

Can you match the statements with the line graphs?

The temperature stayed the same all day

The temperature decreased across the day

The temperature increased and then decreased



In the morning the temperature decreased slowly

In the morning the temperature stayed the same

In the morning the temperature increased

In the afternoon the temperature decreased more quickly

In the afternoon the temperature stayed the same

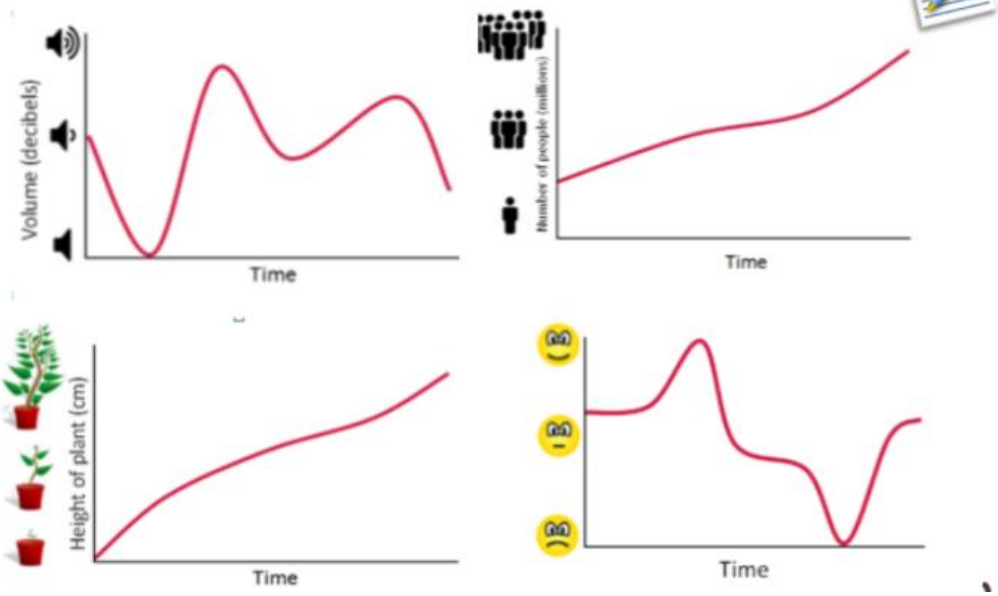
In the afternoon the temperature decreased

Independent Task: Let's have a go

Look at the four different line graphs

What information is being presented?

Create a title and a suitable story for each graph.



Year 5: Numeracy Day 2 Week 2

9 x Table Times Tables Starter

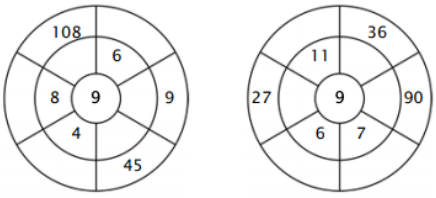
Exercise 1:

Color in all of the boxes that are the solutions of this time table.

11	79	72	90	8
37	54	54	18	5
9	81	45	27	69
27	90	36	99	65
18	108	59	45	19

Exercise 2:

Complete the circle by multiplying the number in the center by the middle ring to get the outer numbers.



Exercise 3:

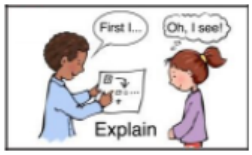
Fill in the correct product.

a) 6 x 9 =_____ b) 2 x 9 =_____ c) 1 x 9 =_____

d) 3 x 9 =_____ e) 10 x 9 =_____ f) 8 x 9 =_____

Reading and interpreting line graphs

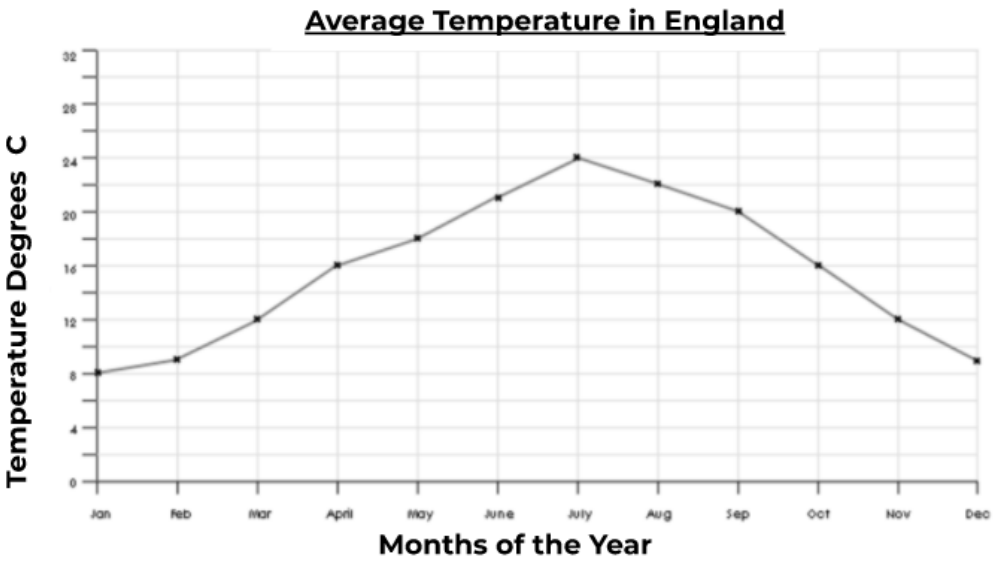
https://classroom.thenational.academy/lessons/reading-and-interpreting-line-graphs-cgtkad



Talk Task

Use the line graph to correctly complete the table below?

Can you think of three factual statements you can make about the line graphs?



Time	Jan	Feb	Mar	April	May	June	July	Aug	Sep	Oct	Nov	Dec
Temperature	8											

Read the line graph carefully and answer the questions below

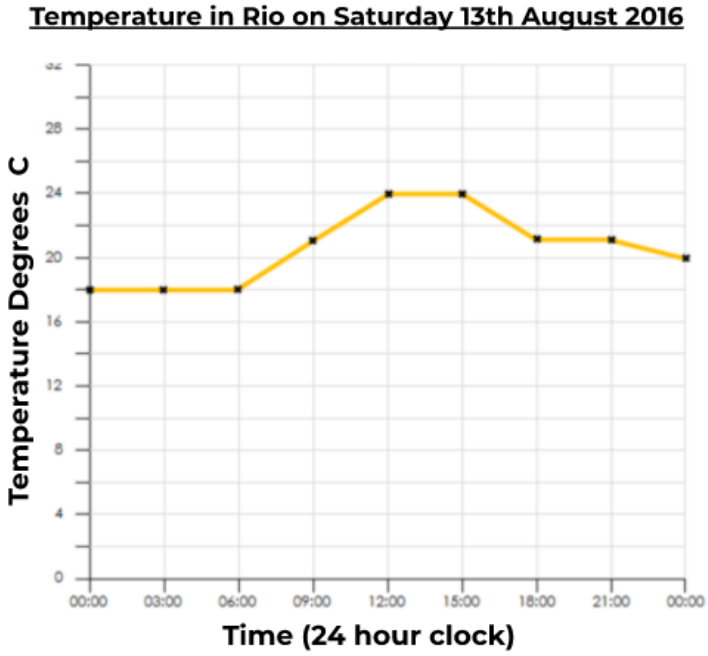
1) How do you know that between 12 p.m. and 3 p.m. was the hottest time of the day?

2) The temperature decreases across the morning, reaching a low of 24 degrees between 12:00 and 15:00. It then increases through the evening and finishes at a lower temperature than the night before.

Is this statement True? Correct any errors you can see.

3) Between which time intervals does the temperature increase the most?

4) Sketch a graph showing your predictions for the week between the Saturdays.



Year 5: Numeracy Day 3 Week 2

9 x Times Tables Starter

Exercise 1:

Draw a line connecting the multiplcation expression with the correct product.

5 x 9	72	
2 x 9		9
6 x 9	63	
7 x 9		18
3 x 9	36	
4 x 9		54
8 x 9	108	
1 x 9		45
12 x 9	90	
10 x 9		27

Exercise 2:

Fill in the missing number.

a) ☐ x 9 = 45 b) ☐ x 9 = 54 c) ☐ x 9 = 108

Exercise 3:

Fill in the correct product.

a) 2 x 9 =_____ b) 5 x 9 =_____ c) 9 x 9 =_____

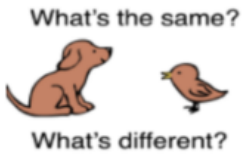
d) 10 x 9 =_____ e) 6 x 9 =_____ f) 11 x 9 =_____

Reading Scales on a Line Graph

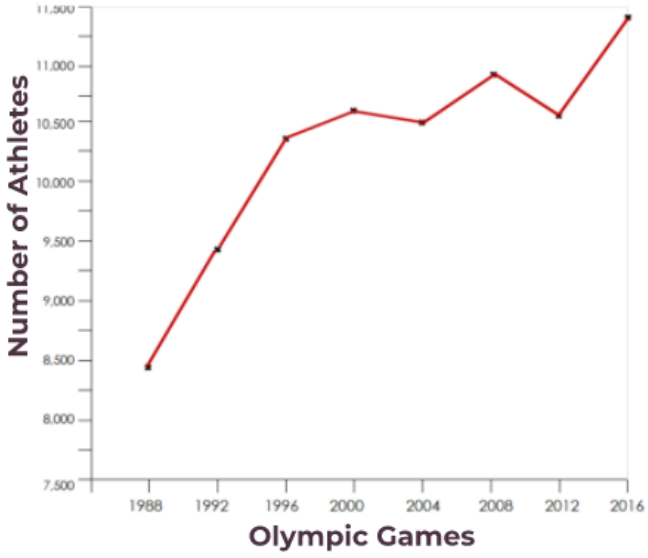
https://classroom.thenational.academy/lessons/reading-scales-on-a-line-graph-6wuk0t

Talk Task

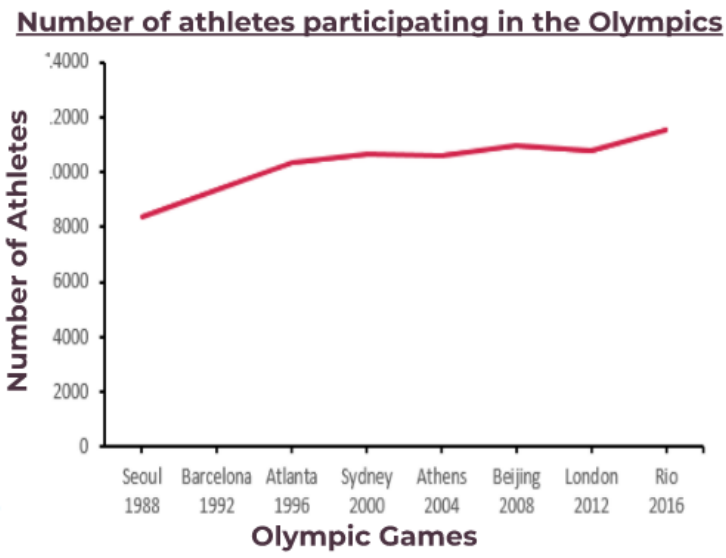
Compare the two line graphs. What statements can we make?



Number of athletes participating in the Olympics

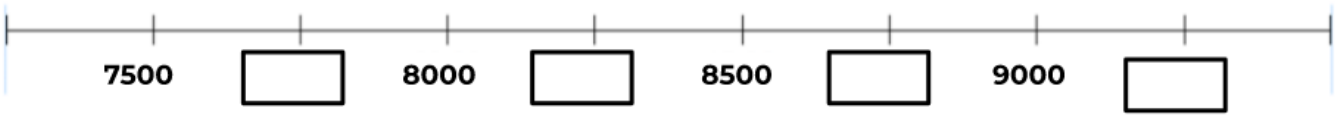


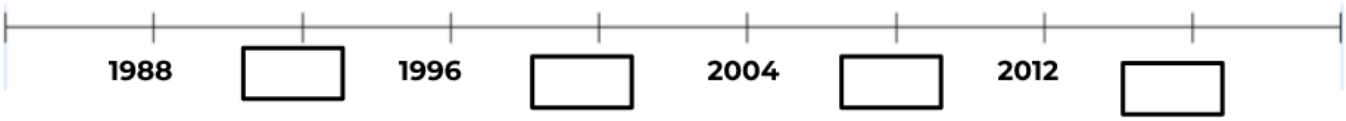
Number of athletes participating in the Olympics



Reading scales - Intervals

Fill in the empty boxes with the correct intervals

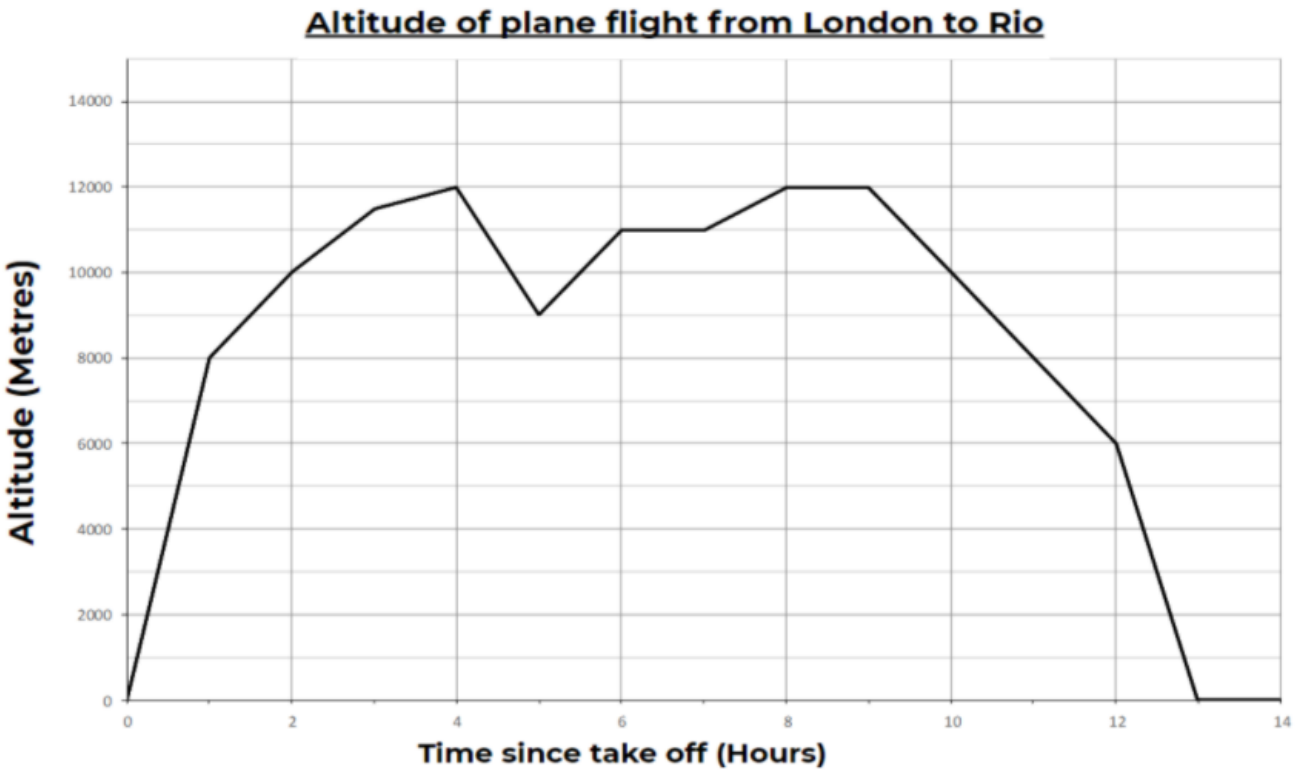




Use the information from the graph to answer the following questions

(see larger version of graph on next slide!)

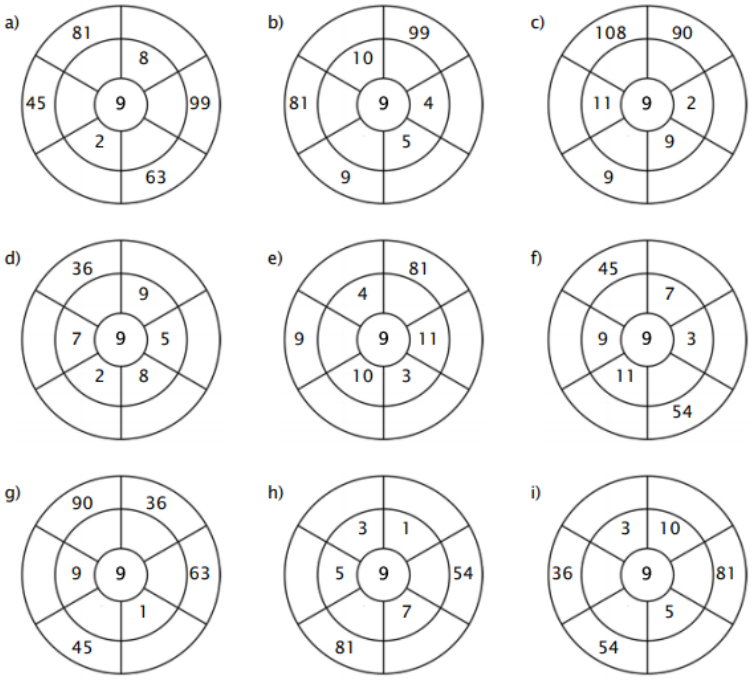
1) What was the approximate **altitude** of the plane at these times:
   a) **3 hours after** take off
   b) **30 minutes before** the plane landed
   c) **Halfway** through the flight
2) What was the **greatest height** reached by the plane?
3) The pilot had to **lower the plane** to avoid a storm. When did this happen and by **how much** was the plane lowered?
4) What is the possible story for this flight - include information from the graph in your story.
5) What questions can you generate that can be answered by the graph?


Altitude of plane flight from London to Rio
Altitude (Metres)
14000
12000
10000
8000
6000
4000
2000
0
0
2
4
6
8
10
12
14
Time since take off (Hours)

Year 5: Numeracy Day 4 Week 2

9 x Times Tables Starter

Complete the circle by multiplying the number in the center by the middle ring to get the outer numbers.



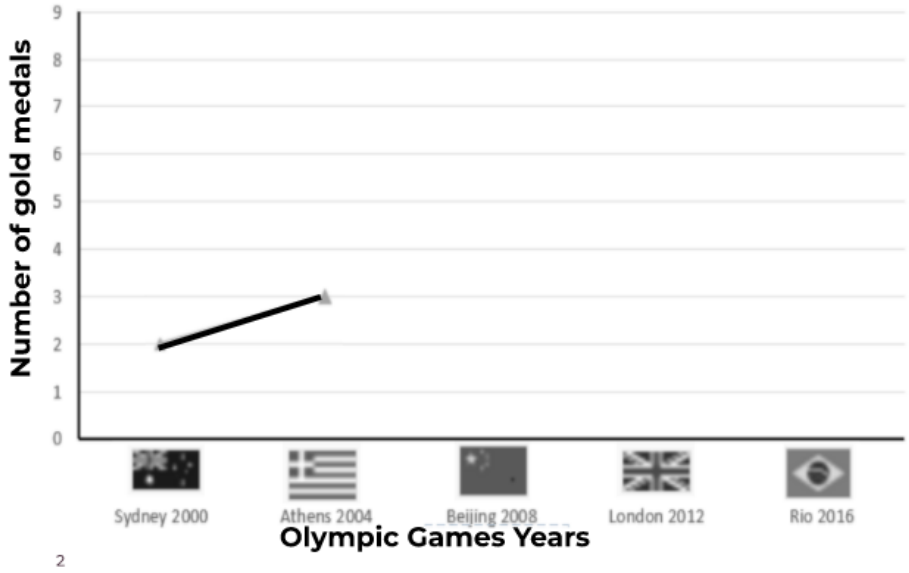
Tables and line graphs

https://classroom.thenational.academy/lessons/tables-and-line-graphs-6xgk0t

Talk Task

1. **Complete the table and plot the line graph accurately.**
2. **Make factual statements about the data provided.**

Team GB gold medals in cycling



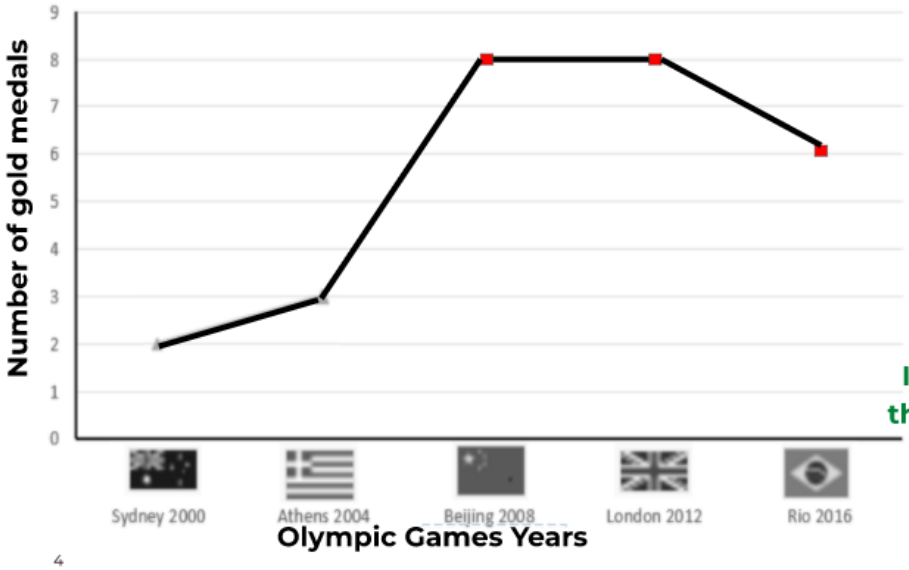
Team GB gold medals in cycling		
Olympic games	Year	Number of gold medals
Sydney	2000	
	2004	
Beijing		8
	2012	8
Rio		6

Olympic Games

Talk Task Answers

1. **Complete the table and plot the line graph accurately.**
2. **Make factual statements about the data provided.**

Team GB gold medals in cycling



4

Factual Statements

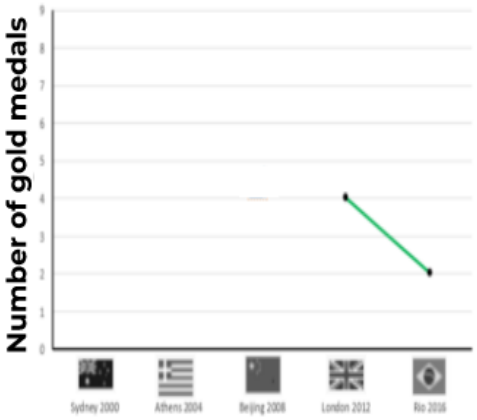
1. GB won 27 gold medals over the last five Olympic Games
2. GB won more gold medals in 2008 than in 2000 and 2004 combined.
3. GB won fewer gold medals in 2004 than in 2016.

Predictions

In 2020, GB will win 6 or less as the data suggests the number of gold medals is decreasing

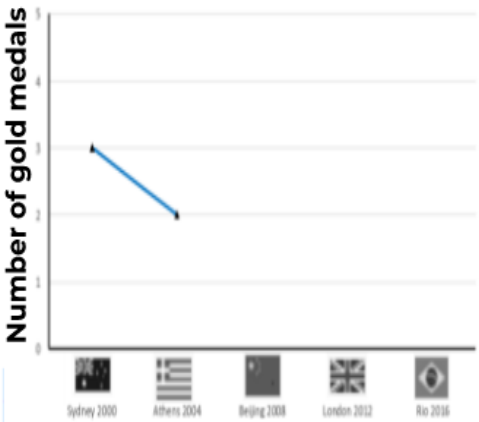
1. Complete the tables and line graphs for both sets of data
2. Use the data from both graphs to answer the questions.
3. Extension - Create 3 factual statements about each graph

Team GB gold medals in Athletics



Team GB gold medals in athletics		
Olympic games	Year	Number of gold medals
Sydney	2000	2
Athens	2004	3
Beijing	2008	1
London	2012	
Rio	2016	

Team GB gold medals in Sailing



Team GB gold medals in sailing		
Olympic games	Year	Number of gold medals
Sydney	2000	
Athens	2004	
Beijing	2008	4
London	2012	1
Rio	2016	2

5

Questions - Read carefully

For each set of data, answer these questions.
Then generate three factual statements about the data.

1) What is the total number of gold medals won in the sport since 2000?

2) In which year did the team improve the most?

3) What do you predict for Tokyo 2020 and why?

4) What can you say about comparing the number of medals won in 2016 to the number in 2012?

Year 5: Numeracy Day 5 Week 2

9 x Times Tables Starter

6 x 9 = _____	10 x 9 = _____	4 x 9 = _____
2 x 9 = _____	12 x 9 = _____	7 x 9 = _____
7 x 9 = _____	4 x 9 = _____	11 x 9 = _____
10 x 9 = _____	7 x 9 = _____	8 x 9 = _____
11 x 9 = _____	12 x 9 = _____	1 x 9 = _____

12 x 9 = _____	4 x 9 = _____	10 x 9 = _____
4 x 9 = _____	3 x 9 = _____	2 x 9 = _____
8 x 9 = _____	7 x 9 = _____	9 x 9 = _____
9 x 9 = _____	2 x 9 = _____	1 x 9 = _____
5 x 9 = _____	11 x 9 = _____	11 x 9 = _____

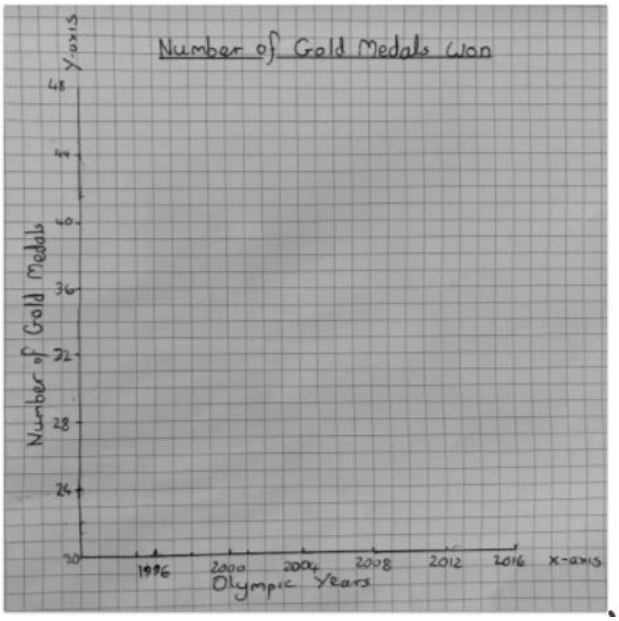
Constructing a line graph

https://classroom.thenational.academy/lessons/constructing-a-line-graph-6gv38r

Step 1

Constructing a line graph

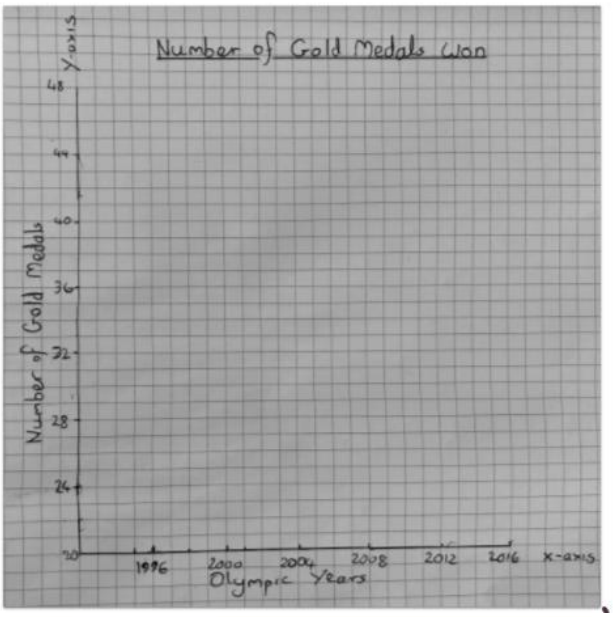
Olympic gold medals won by USA					
1996 Atlanta	2000 Sydney	2004 Athens	2008 Beijing	2012 London	2016 Rio
44	28	32	48	38	26



Step 2

Plot the points!

Olympic gold medals won by USA					
1996 Atlanta	2000 Sydney	2004 Athens	2008 Beijing	2012 London	2016 Rio
44	28	32	48	38	26

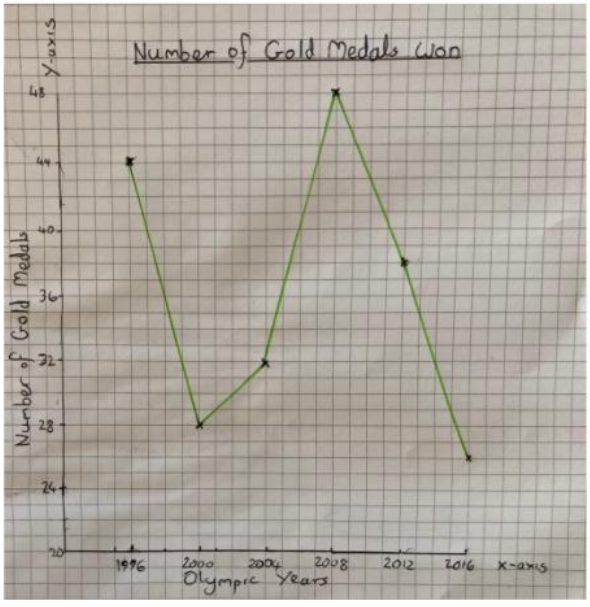


Step 3

What questions can we ask?

What statements can we make?

Olympic gold medals won by USA					
1996 Atlanta	2000 Sydney	2004 Athens	2008 Beijing	2012 London	2016 Rio
44	28	32	48	38	26



1. **Construct a line graph with all required features.**
2. **Present the data on your line graph from both tables below**
3. **Create four factual sentences which compare both sets of data**

Olympic medals won by Australia					
1996 Atlanta	2000 Sydney	2004 Athens	2008 Beijing	2012 London	2016 Rio
9	16	17	14	8	8

Olympic medals won by Team GB					
Atlanta 1996	Sydney 2000	Athens 2004	Beijing 2008	London 2012	Rio 2016
1	11	9	19	29	27

Challenge Slide

Don't forget to pause the video if you want to have a go!

Olympic medals won by Australia					
1996 Atlanta	2000 Sydney	2004 Athens	2008 Beijing	2012 London	2016 Rio
9	16	17	14	8	8

Olympic medals won by Team GB					
Atlanta 1996	Sydney 2000	Athens 2004	Beijing 2008	London 2012	Rio 2016
1	11	9	19	29	27

1) **How many Gold Medals did both countries win altogether?**

2) **What was the range of gold medals for both countries?**

3) **Which year was the most successful and least successful for both countries combined?**