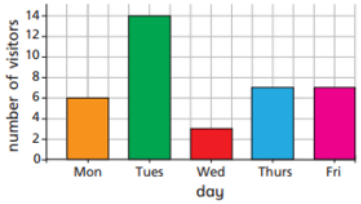
Maths

Monday: Mini assessment

Tuesday:

Video: [Aut5.6.2 - Comparison sum and difference on Vimeo]

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	

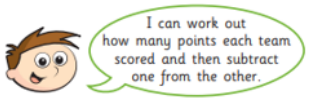
Key = 4 points

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

Red ◯ Blue and Green Red and Green ◯ Yellow and Blue

Red and Blue ◯ Green and Yellow Blue and Green ◯ Yellow

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



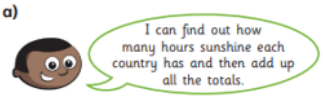
Is there another way Teddy could work out the answer?

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	

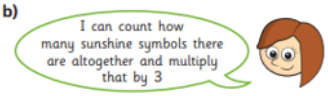
Key = 3 hours

a)



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

b)



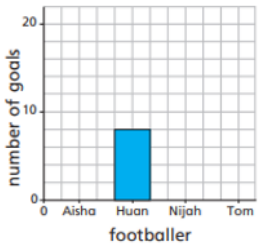
Use Rosie's method to calculate the total hours of sunshine.

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

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.



Wednesday:

Video: [Aut5.6.4 - Read and interpret line graphs on Vimeo]

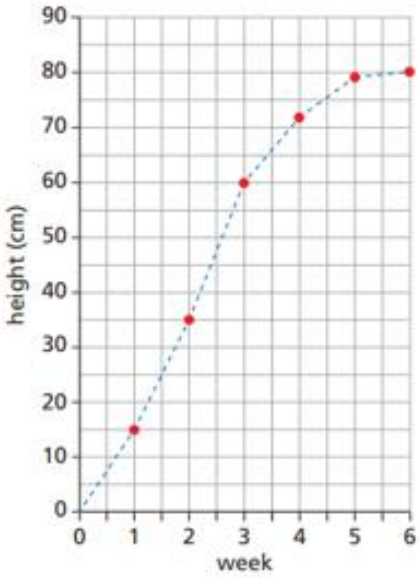
1 The graph shows the height of a sunflower on the first day of each week for 6 weeks.

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.

d) By how much does the sunflower grow from the start of week 3 to the start of week 6?



2 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?

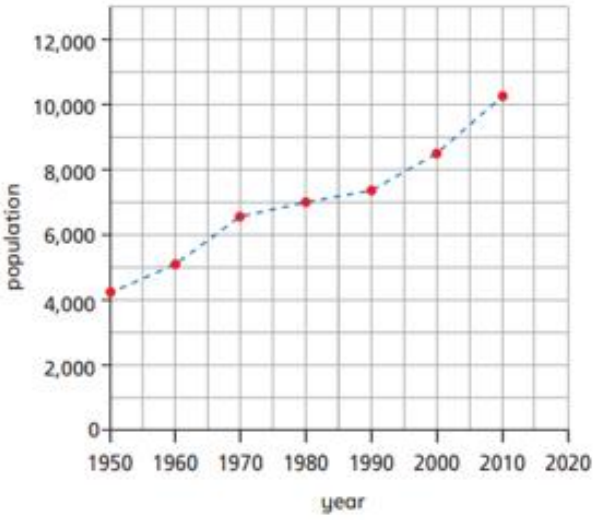
b) What was the population at the end of 2000?

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

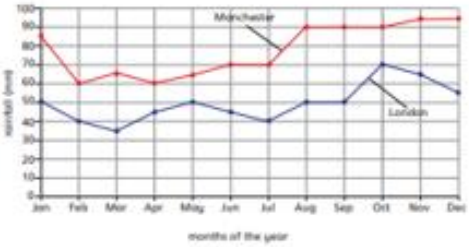
d) Which decade had the least population increase?

e) Predict the population at the end of 2020

Compare answers with a partner.



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?

e) How many months does it rain more than 50 mm in London and Manchester?

f) How much more rainfall is there in Manchester than London in December?

Thursday

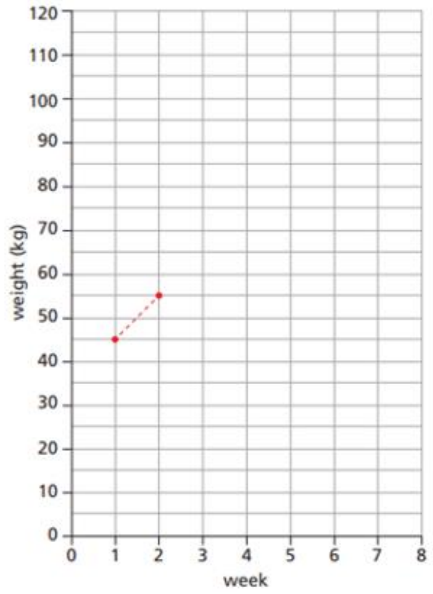
Video: Aut5.6.5 - Draw line graphs on Vimeo

1 The table shows the weight of a horse at the end of each week for 8 weeks.

Week	1	2	3	4	5	6	7	8
Weight (kg)	45	55	70	80	95	100	100	120

Plot this information on the line graph.

The first two points have been plotted for you.



2 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.

b) Estimate the height of the child at 7-and-a-half years old.

Explain your estimate.

3 This table shows the conversion between miles and kilometres.

Miles	0	5	10	20	50
Kilometres	0	8	16	32	80

a) Plot this data as a line graph.

b) How many kilometres is 15 miles?

c) How many miles is 60 km?

4 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.

Friday:

Arithmetic (use PP on website to help).

26.10.21

Arithmetic LO: To calculate area using a formula.
I know that I can use the method of counting squares to help me with calculating area.
I can compare and calculate areas.
I understand what it means to use the most 'efficient' method.

What is the most efficient method for calculating area?

Can you tell me the formula we use?

area = height x width

Choose which questions you think suit your current working level.

Your turn!

Calculate the area of these shapes:

(Not to scale)

1) 16cm, 8cm

2) 3cm, 12cm

3) 14m, 6m

4) 11cm

2 and 3

Your turn!

Calculate the area of these shapes:

(Not to scale)

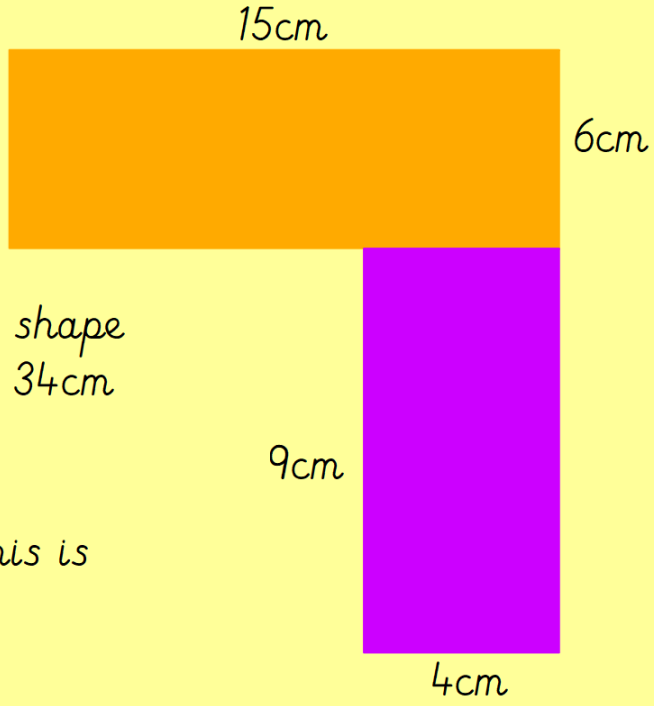
1) 6cm, 3cm

2) 3cm, 12cm

3) 9m, 5m

4) 11cm

Extension:



This compound shape has an area of 34cm squared.

Explain why this is wrong.

Plenary:

True or false: the formula for calculating area is length + height.

Tell your partner what the formula is and why using this is most efficient.