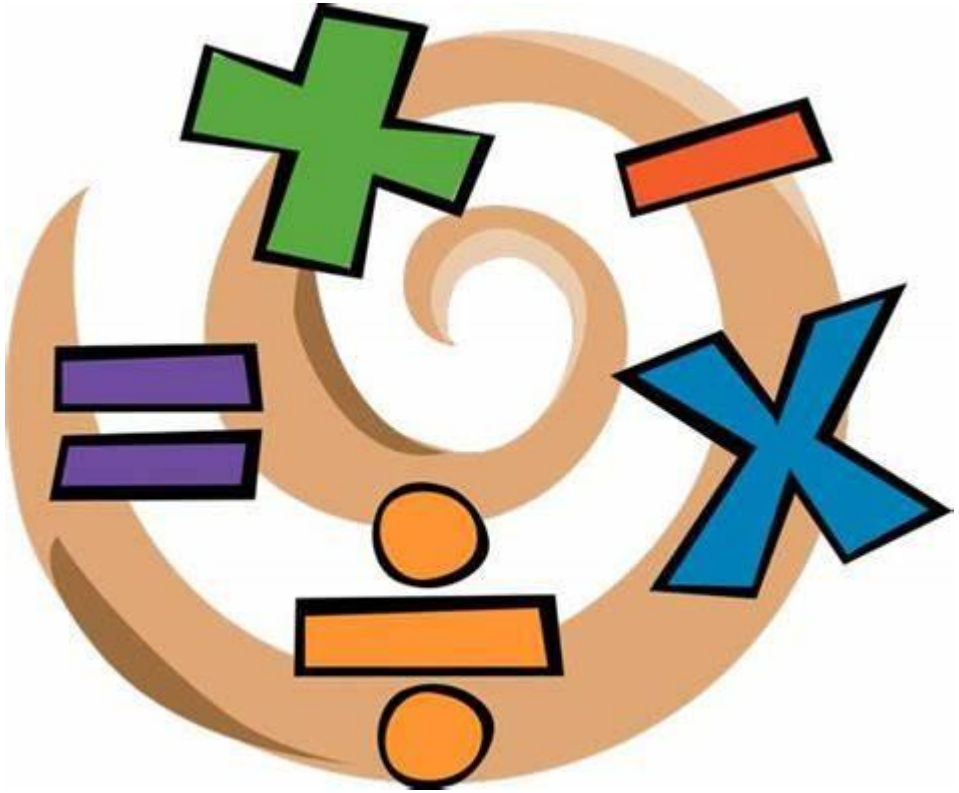
Maths home learning

Week beginning 9th November

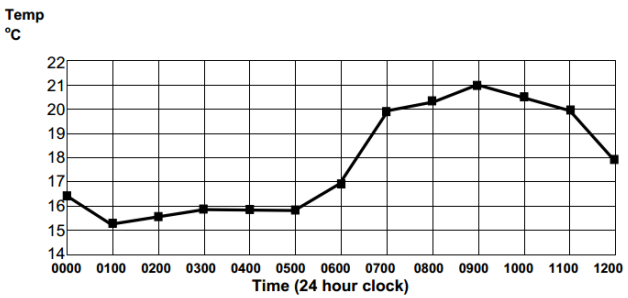
Year 5



We are starting a new topic this week! Hurray!
It's called "Statistics" so we will be looking at and using lots of charts.
The first few sessions are revision of year 4 content so don't worry if you are not feeling too confident at the minute!
Please follow the links to see the Video Tutorials and have a look here for each day's work/questions. ! (I haven't included *ALL* of the Questions from the sheet but shhhh! Don't tell Mr Carry or Mrs McCole! I just chose a few and a challenge question for us).

Also, when the video tells you to complete the questions, just ignore that bit!

1) Here is a graph of the temperature in a kitchen over a twelve hour period.



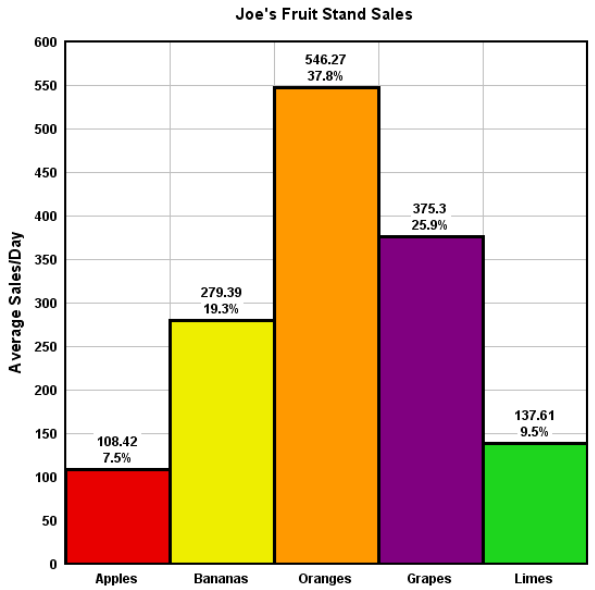
a) What was the temperature at 0600 ?

b) Estimate the temperature at 1130.

c) At what time do you think the central heating was switched on?

d) During which times did the temperature remain constant?

Favourite part of Christmas	Number of people
Decorating the tree	𝍸 ||||
Opening presents	𝍸 𝍸 |
Playing in snow	||||
Carols and music	|||
Time with friends and family	𝍸 |
Christmas food	||



Monday 9/11/20

Monday: Interpret charts https://vimeo.com/462717846

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.

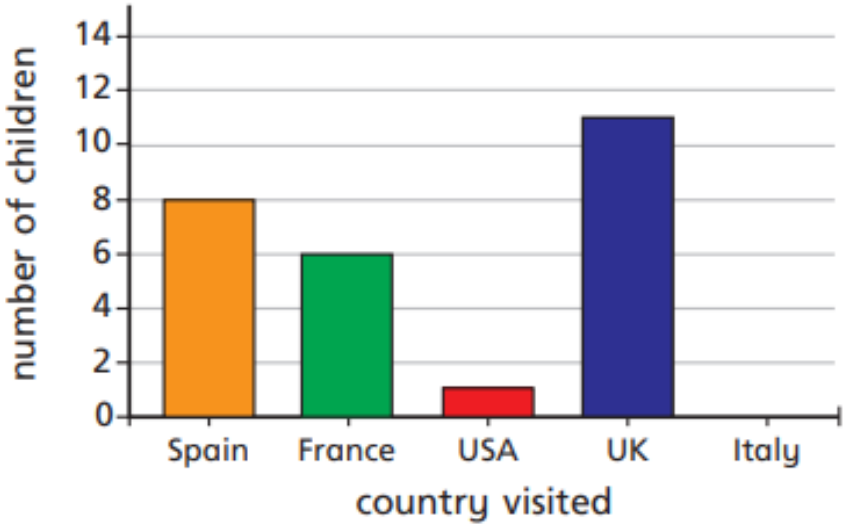
What mistake has Annie made?

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.

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



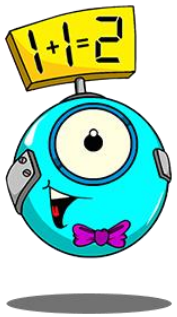
a) Complete the table using the information in the bar chart.

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

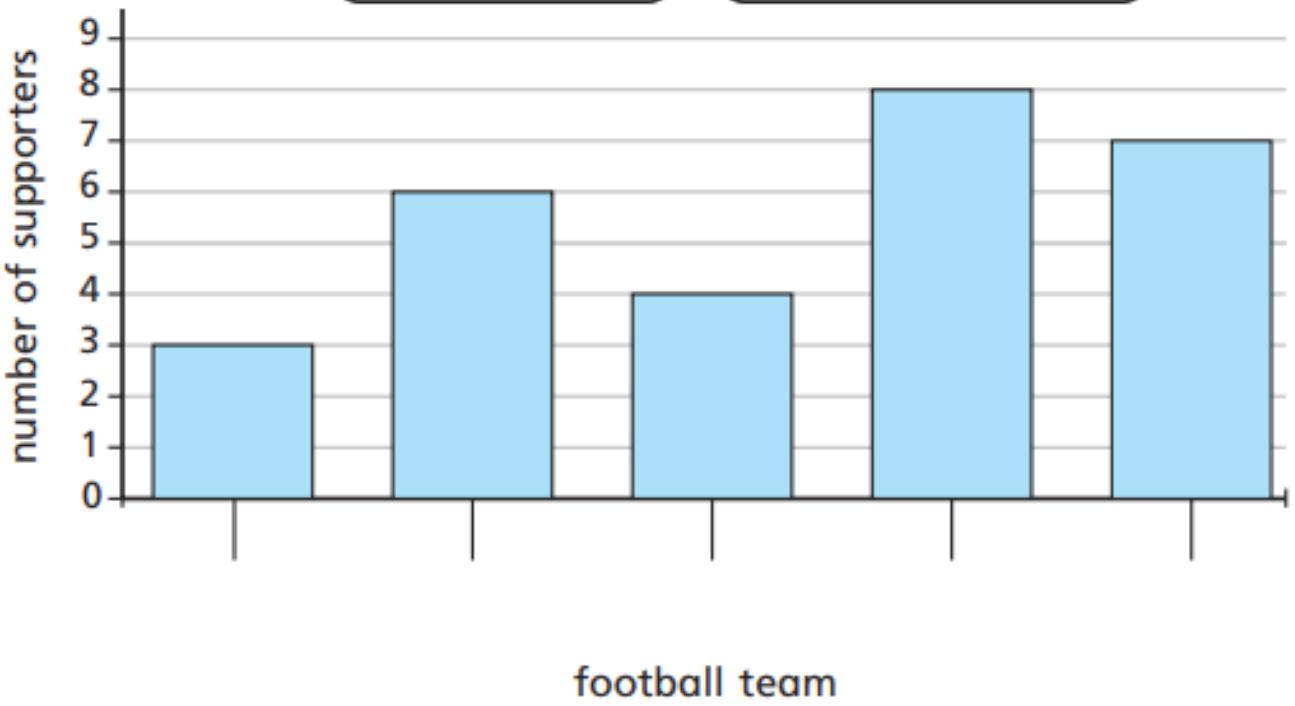


Challenge Question

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.

Bradford City | Huddersfield Town | Halifax Town | Leeds United | Manchester United



Monday Answers:

a) 8

b) She has counted the number of pictures of ice creams on the pictogram, but each picture represents 2 ice creams.

c) 12

d) 3

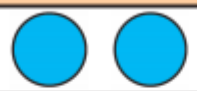
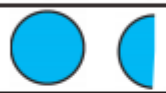
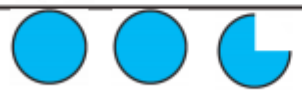
e)

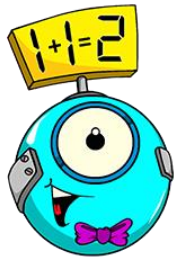
Ice cream flavour	Number of ice creams sold
vanilla	
chocolate	
strawberry	
mint choc	

a)

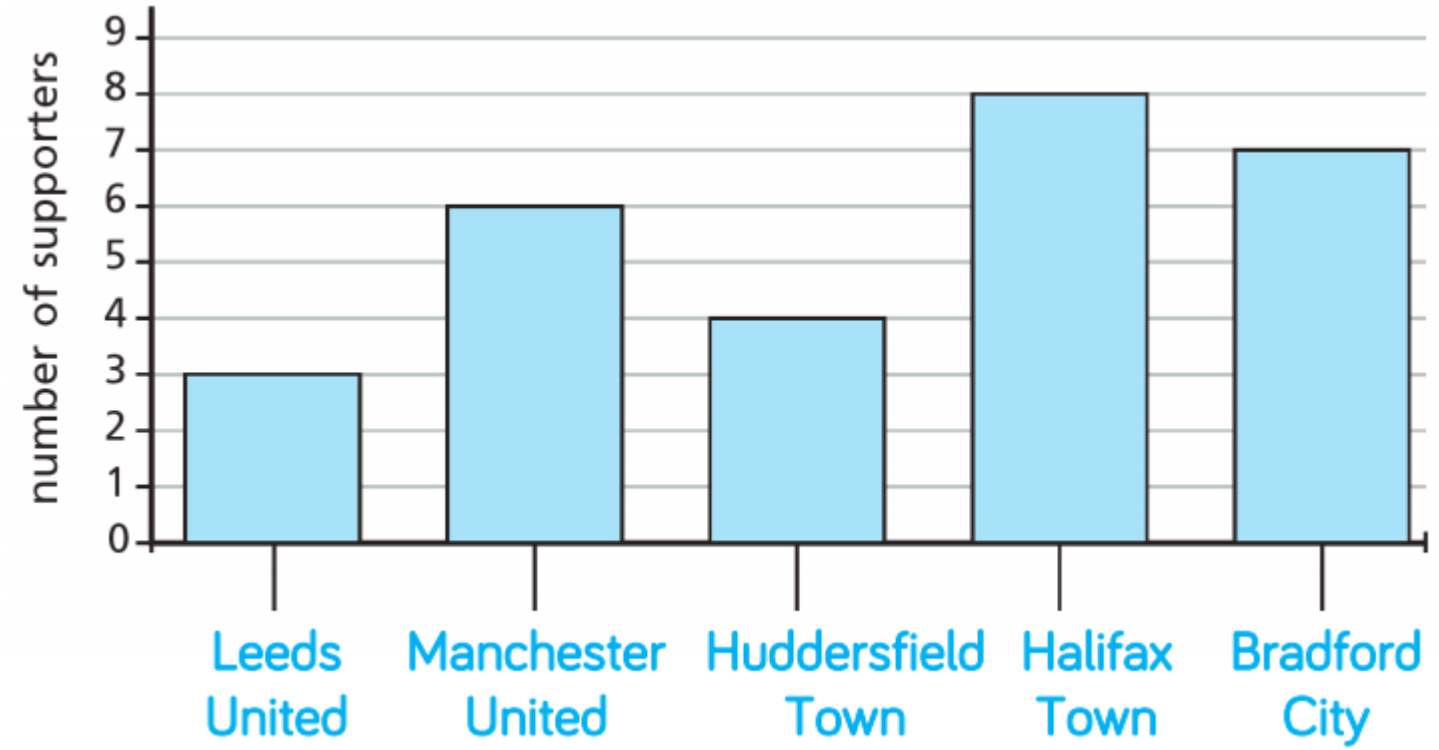
Country	Number of children visiting
Spain	8
France	6
USA	1
UK	11
Italy	0

b)

Country	Number of children visiting
Spain	
France	
USA	
UK	
Italy	



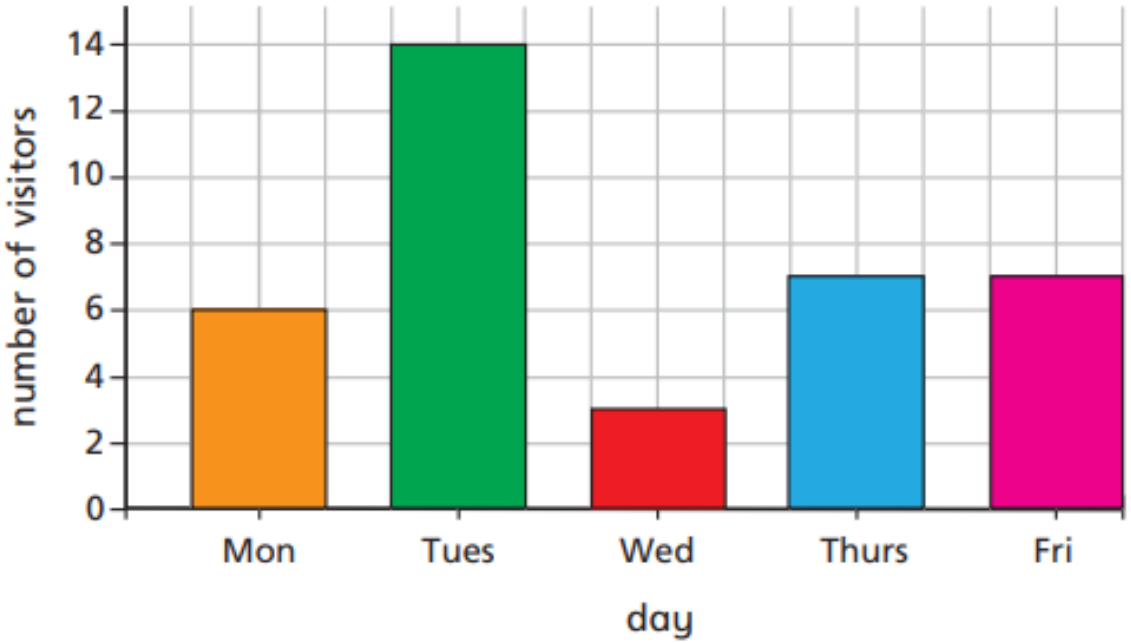
Challenge answer



Tuesday 10/11/20

Tuesday: Comparison, sum, difference https://vimeo.com/462718768

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.

I can work out how many points each team scored and then subtract one from the other.

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)

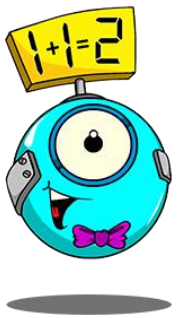
I can count how many sunshine symbols there are altogether and multiply that by 3

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

☐ hours

Which method is the most efficient?

Will that always be the case?



Challenge Question

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. _____

Tuesday Answers:

1

a) 11
b) 1
c) 37
d) 21

2

a) Red < Blue and Green
Red and Blue < Green and Yellow
Red and Green = Yellow and blue
Blue and Green = Yellow

b)

Team	Points
Red	
Blue	
Green	
Yellow	
Pink	

c) Teddy could subtract the square and a half for Green from the squares for Red to leave 2 whole squares and then convert these to 8 points.

3

a) 54 hours

b) 54 hours

Rosie's method is more efficient when all the symbols are whole symbols. When there are part symbols representing less than 3 hours then it is harder to work out how many symbols there are in total.

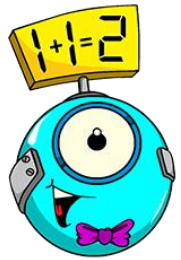
4

a)

	Women	Men	Total
Film A	364	618	982
Film B	411	484	895
Film C	609	255	864
Total	1,384	1,357	2,741

b) true

false

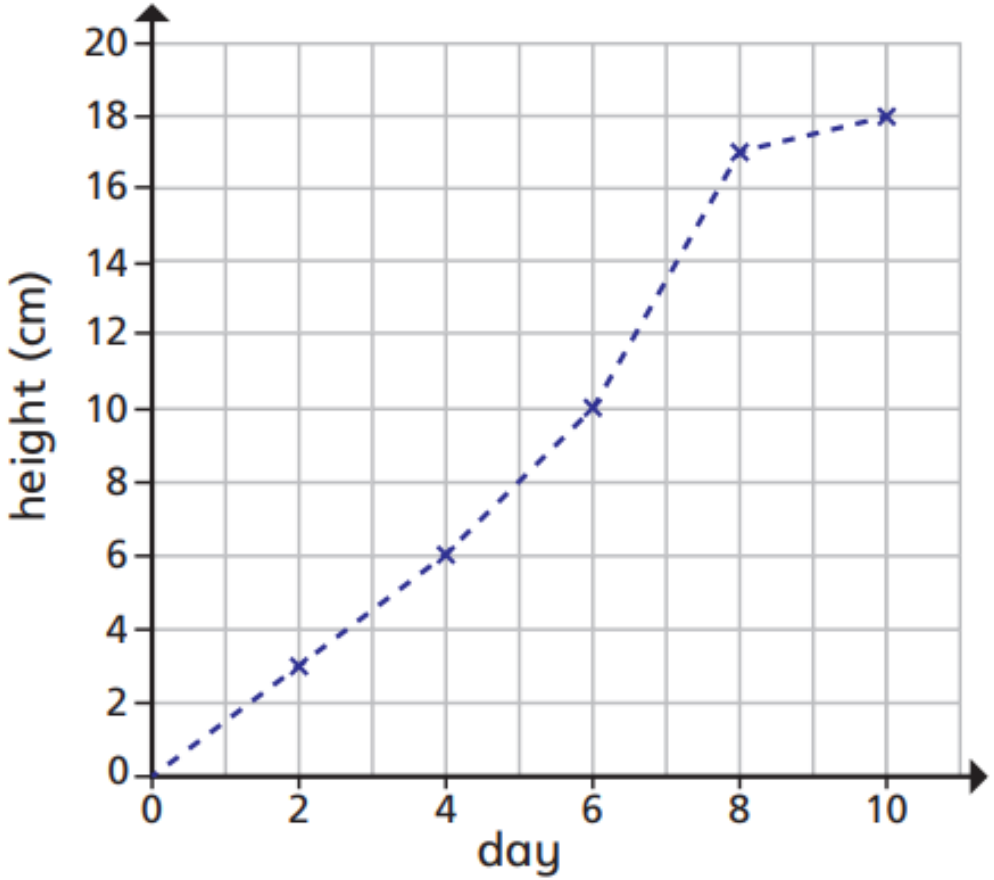


Challenge Answer

Wednesday 11/11/20

Wednesday: Introducing line graphs https://vimeo.com/464199475

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.

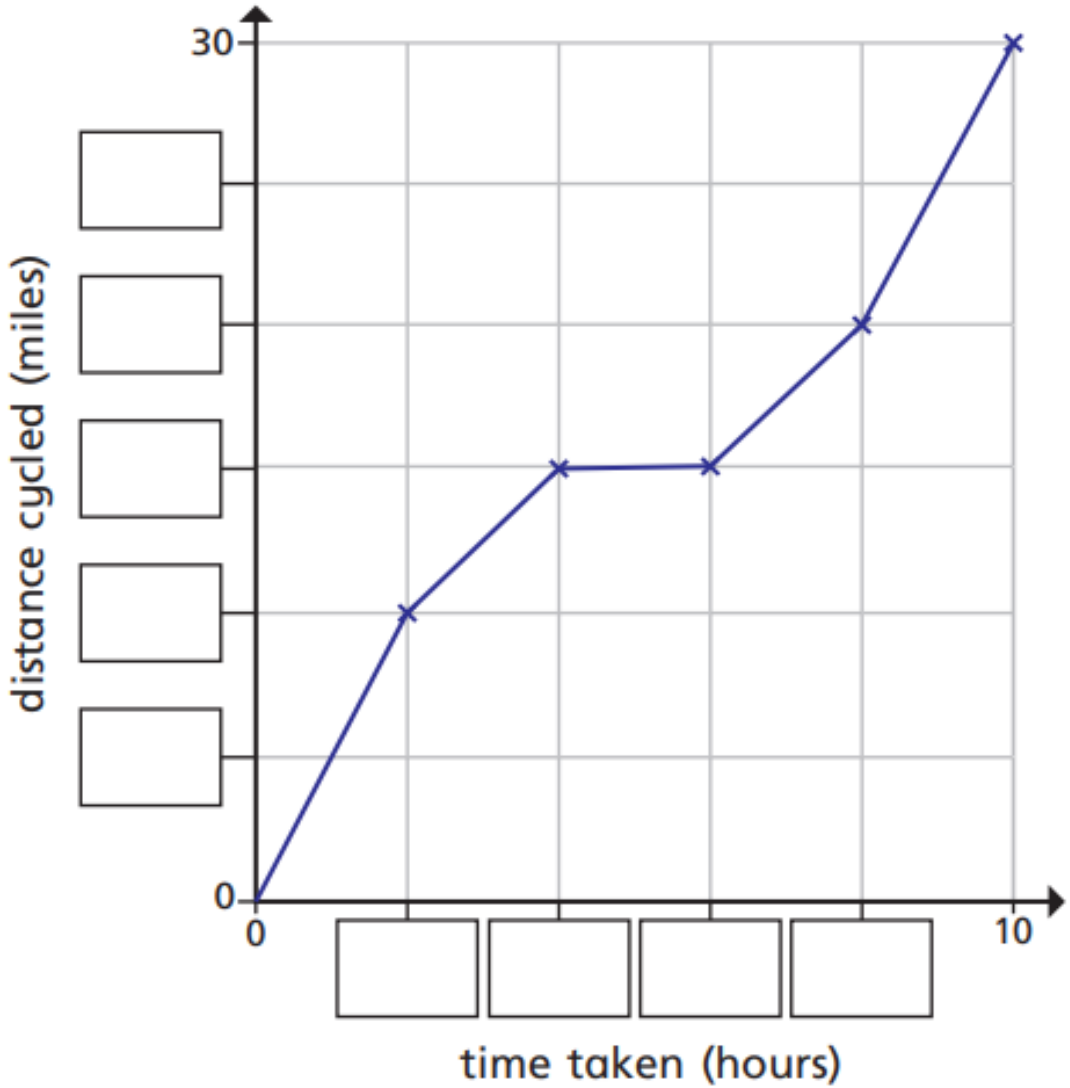
day ☐

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?

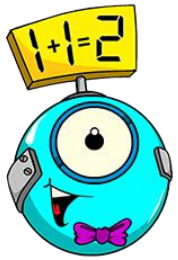
☐ miles

e) How far did the cyclist travel between 4 and 6 hours?

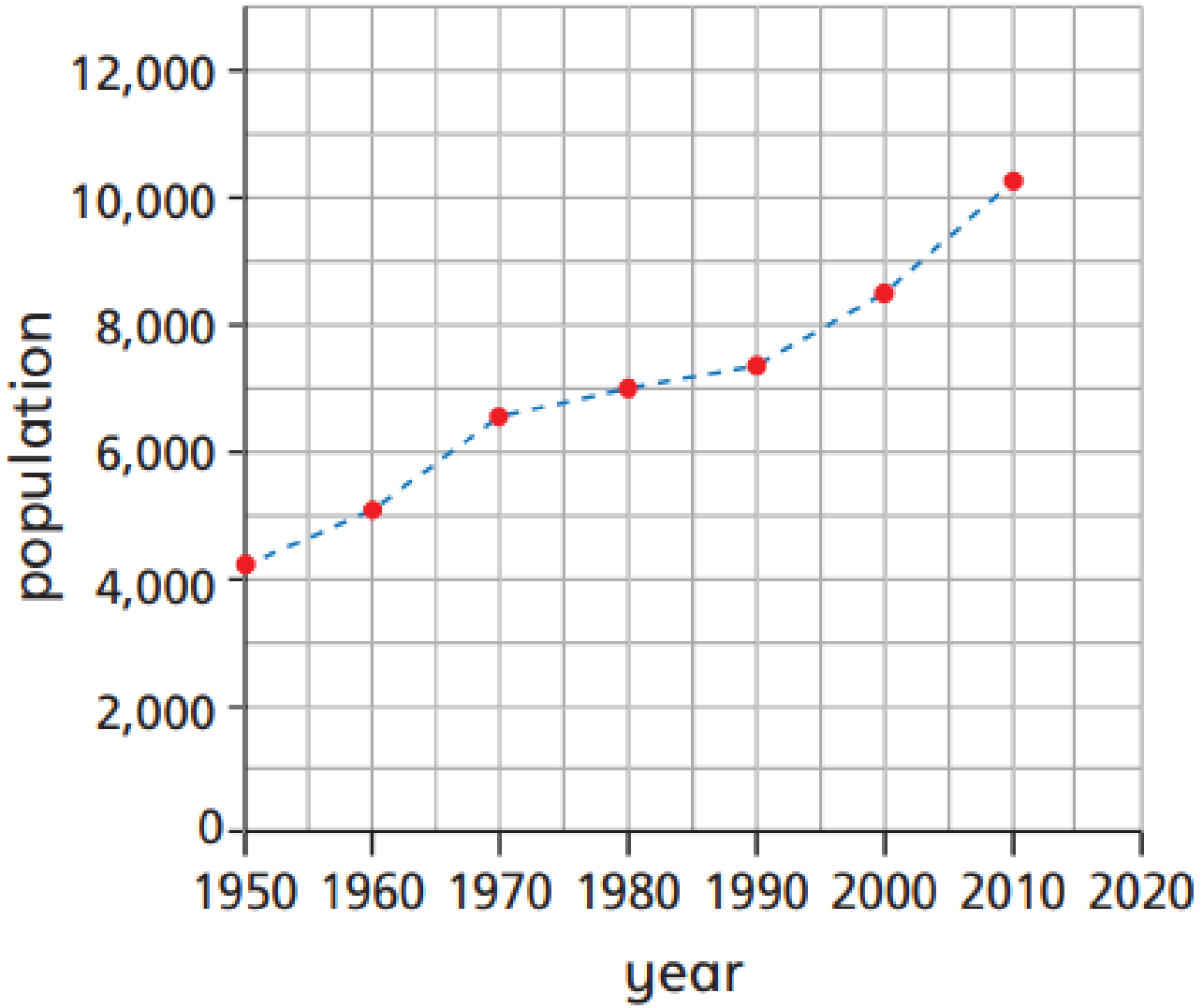
☐ miles

What might have happened during this time?

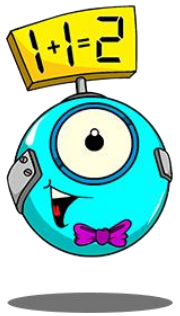
4 The graph shows the population of a town from 1950 to 2010



Challenge



Questions are on the next page!



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

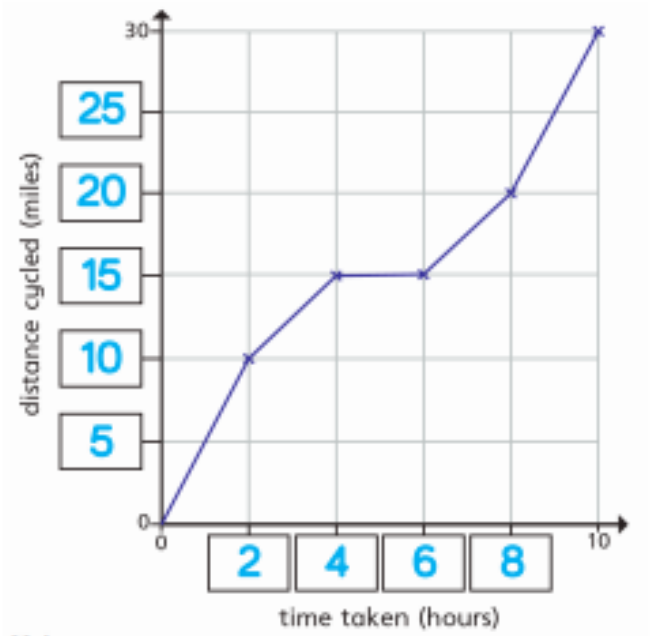
Wednesday Answers:

1

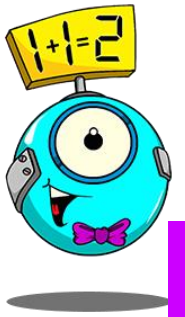
a) 3 cm
b) day 6
c) 8 cm
d) day 7
e) day 6 and day 7 **or** day 7 and day 8

2

a)



b) 2 hours
c) 15 miles
d) 30 miles
e) 0 miles
The cyclist might have stopped for a rest or to eat something.



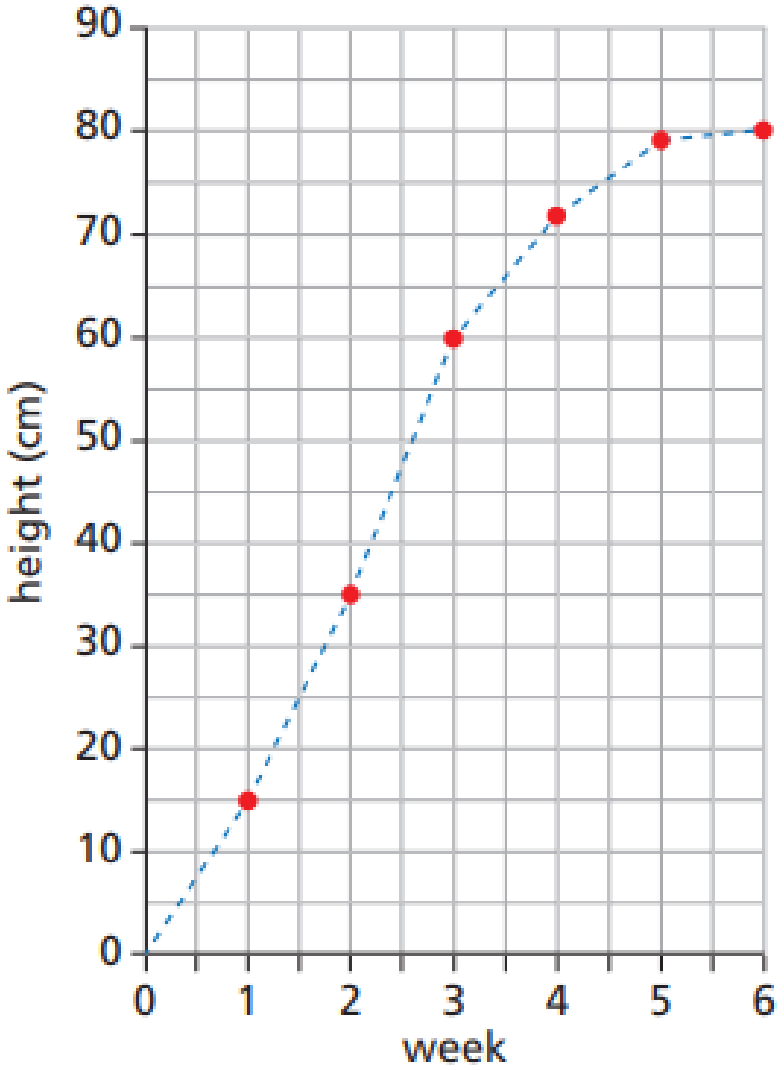
Challenge answer

a) The population of the town **increased** / **decreased** from 1950 to 2010
b) 10,200
c) 1980
d) 6,500
e) 9,500

Thursday 12/11/20

Thursday: Read and interpret line graphs https://vimeo.com/464199069

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



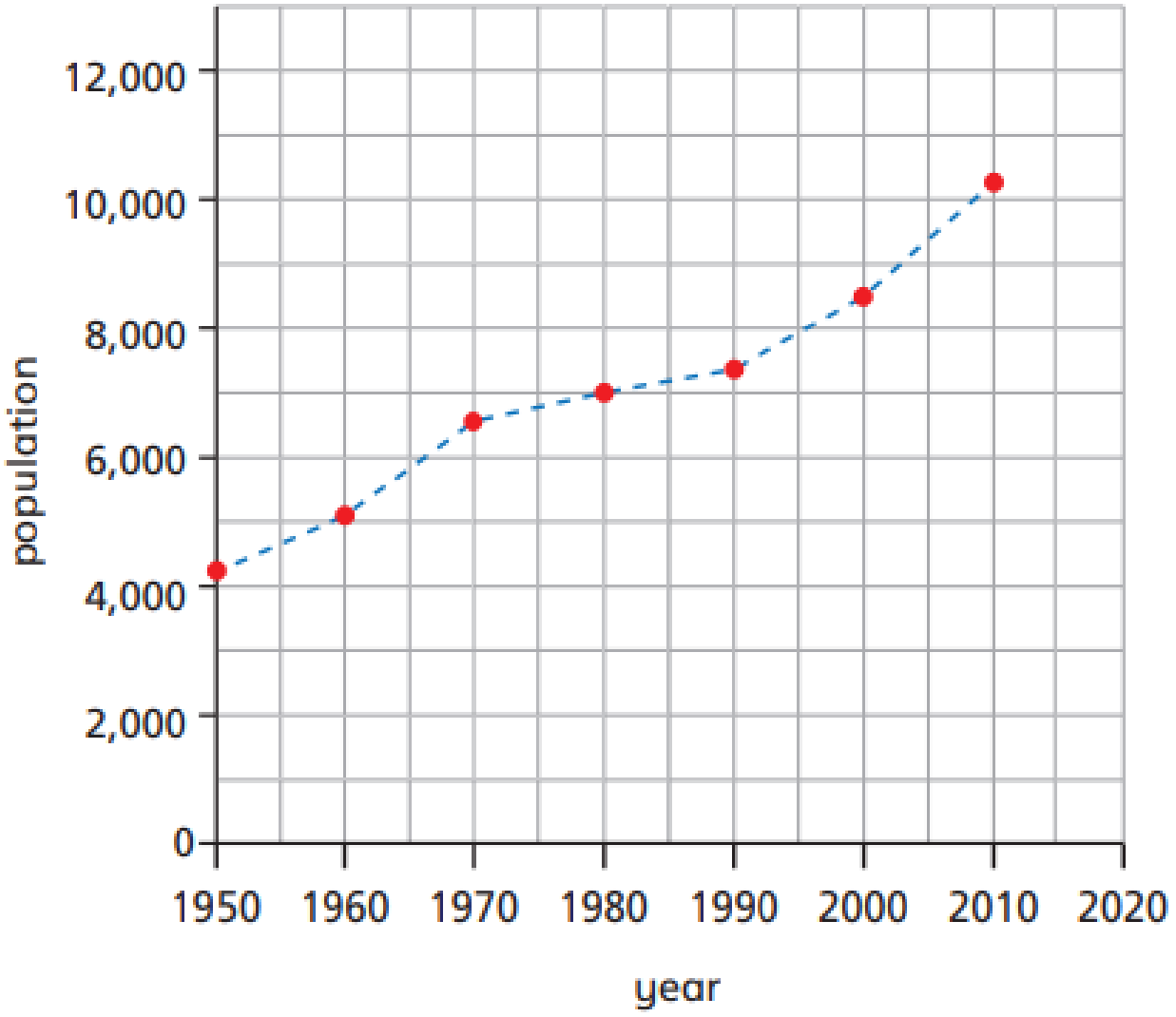
a) What is the height of the sunflower at the start of week 3?

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?

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?

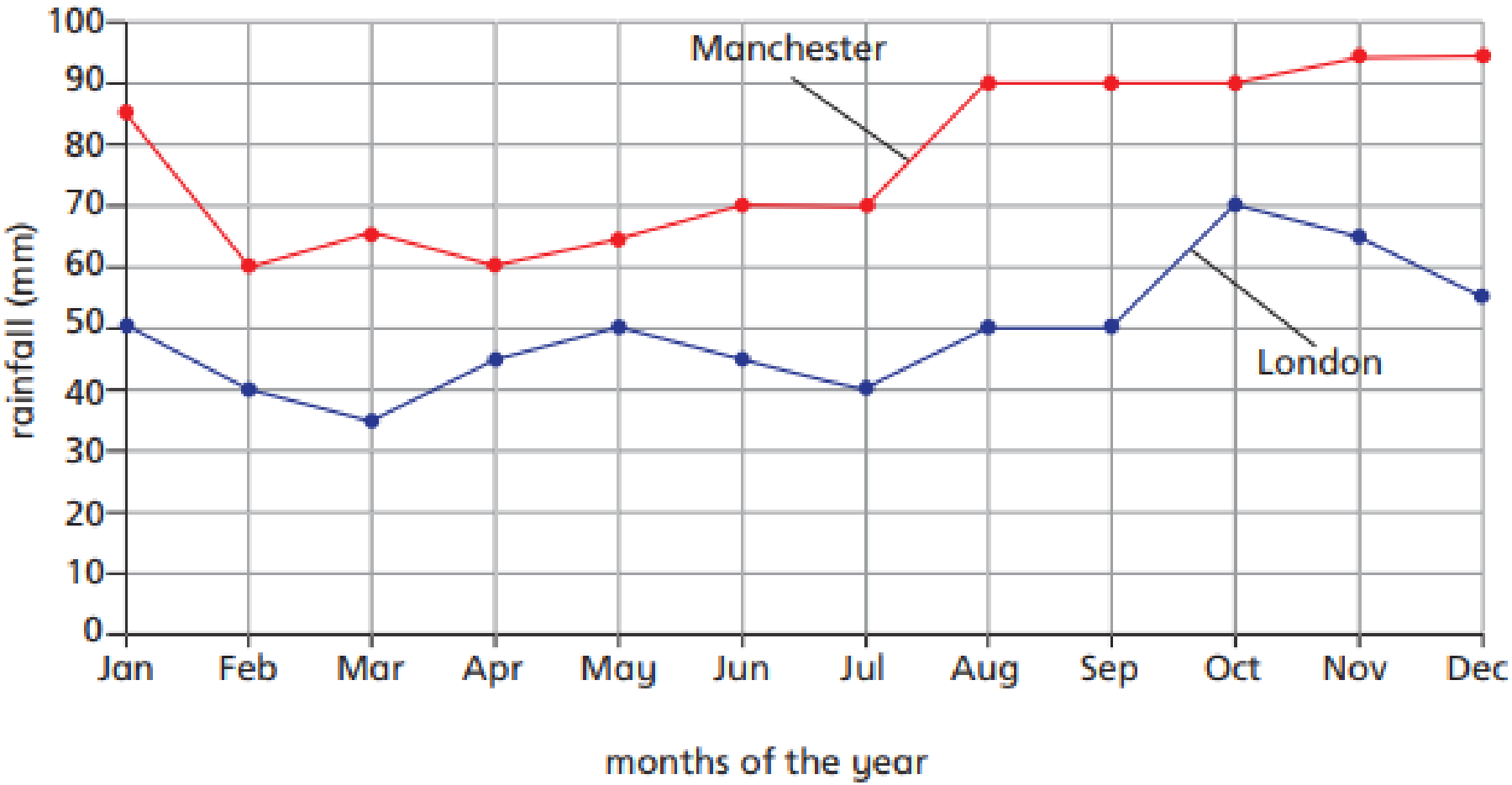
c) Can you accurately tell the population in 1991? Why?

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.



Questions on next page!

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? ☐

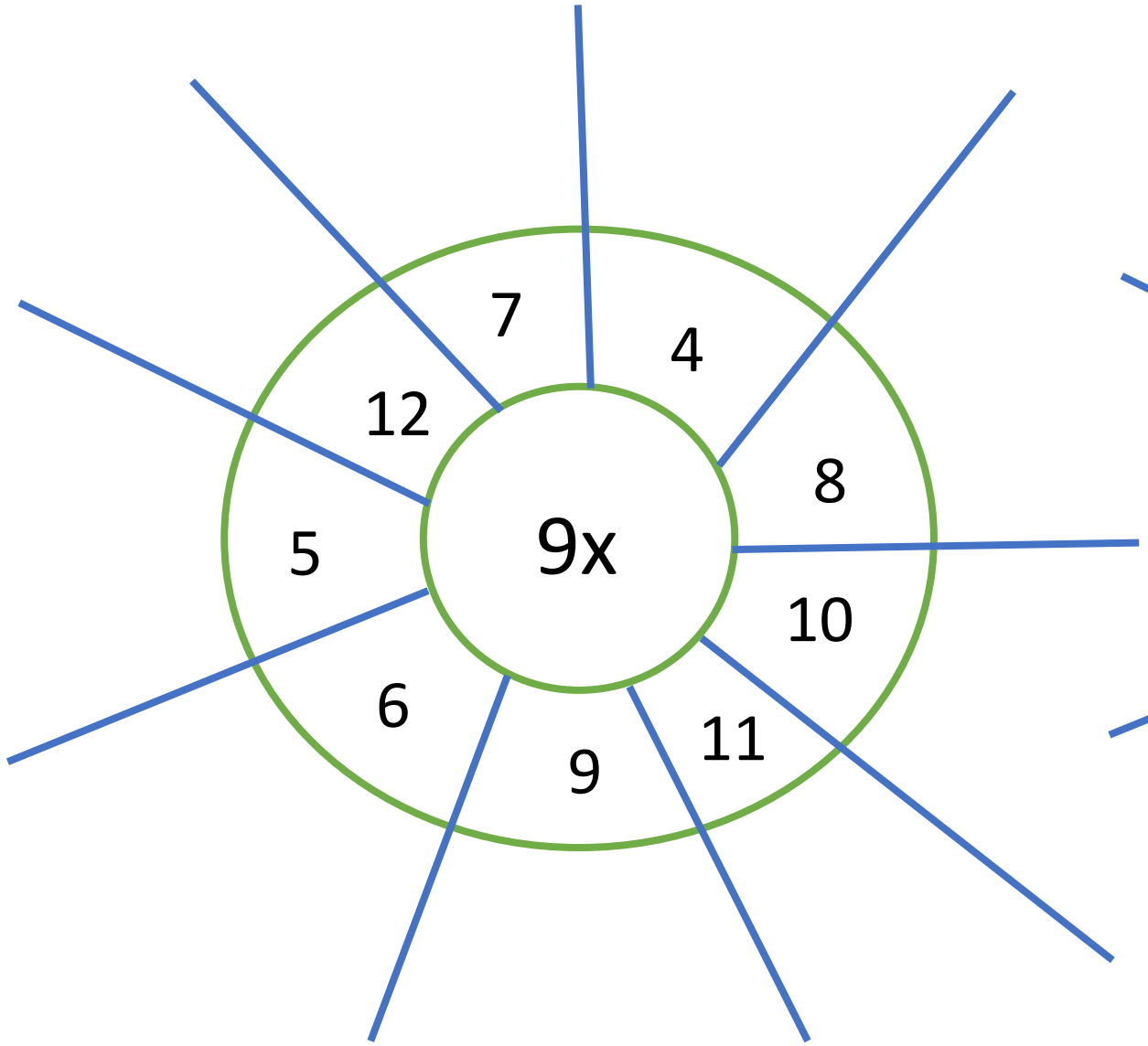
e) How many months does it rain more than 50 mm in London and Manchester? ☐

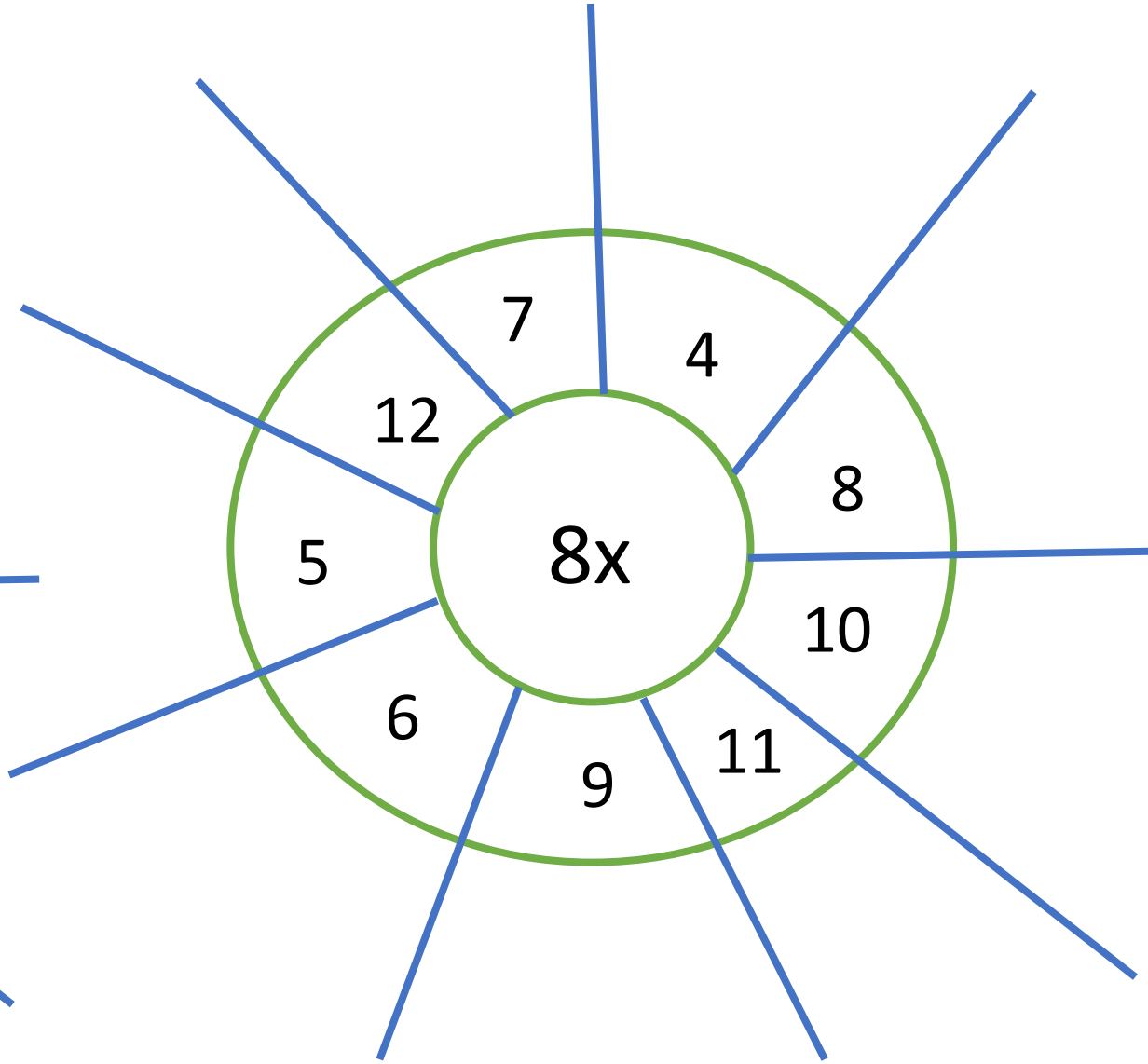
f) How much more rainfall is there in Manchester than London in December? ☐

Thursday Answers:

1	a) 60 cm b) 35 cm c) She has read the intervals between grid lines wrong. The height is between 70 cm and 75 cm. d) 20 cm
2	a) 7,000 b) 8,500 c) No. multiple possible answers, e.g.: It is only partly into a square There isn't a measurement for that year. d) 1980s e) Answers will depend on how students continued the curve.
3	a) 50 mm b) February and April c) October d) 35 mm e) 3 f) 40 mm

Friday 13/11/20



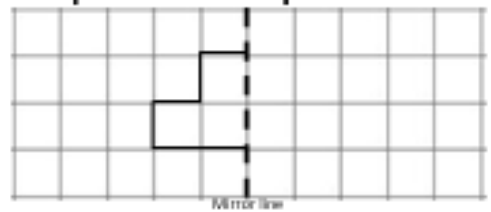


Skills Check

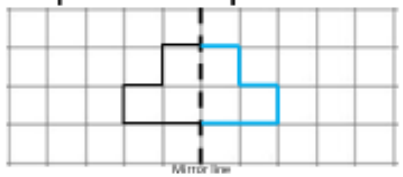
I have copied some questions from one of our Friday Skills Checks.

Hopefully, you can read the questions ok.

Just answer to the best of your ability!

A: Place Value, Add and Subtract		B: Multiply, Divide and Fractions		C: Measure, Geometry and Statistics	
1. What is the missing number? 1,000 2,000 ☐ 4,000 5,000	4:1	11. 9 x 9 =	4:9	**21. How many millilitres are there in 2.15 litres?**	4:19
2. What is the missing number? 200 225 250 275 ☐	4:1	12. Complete the sum that is equal to 4 x 5 x 18: 20 x ☐	4:10		
3. Round this number to the nearest 1,000: 3,192	4:2	13. 932 x 4 =	4:11	**22. Tick (✓) the shape that has exactly 2 lines of symmetry.** 	4:25
4. What is 1,000 **more** than 6,394?	4:2	14. To work out 4 x 55 you could do: 50 x ☐ + ☐ x 5	4:12		
5. If the temperature starts at 5°C, then drops by 9°C, what is it now?	4:3	15. $\frac{35}{40} = \frac{7}{?}$	4:13	**23. Complete this shape:** 	4:26
6. What is the value of the **8** in this number? 6,283	4:4	16. What is the missing number? 9.96 9.97 9.98 9.99 ☐	4:14		
7. Write the number 74 in Roman numerals.	4:5	17. $\frac{2}{5} + \frac{4}{5}$	4:15	**24. Number of tyres sold by a garage one weekend:** **Key: ⊕ = 4 tyres** **Saturday** ⊕ ⊕ ⊕ ⊕ (**Sunday** **13 were sold on Sunday. Show this.**	4:29
8. 4,115 - 1,472 =	4:6	18. Write 0.8 as a fraction.	4:16		
9. **Estimate** the answer to: 15,507 + 4,489	4:7	19. 293 ÷ 10 =	4:17		
10. From 300 tickets, pupils buy 89 & parents buy 184. How many are left?	4:8	20. Using £20 Rob buys a DVD for £6 and a CD for £6.95. How much left?	4:18	**25. How many tyres were sold in total over the weekend?**	4:30

Friday Answers:

A: Place Value, Add and Subtract		B: Multiply, Divide and Fractions		C: Measure, Geometry and Statistics	
1. What is the missing number? 1,000 2,000 ☐ 4,000 5,000	4:1 **3,000**	11. 9 x 9 =	4:9 **81**	21. How many millilitres are there in 2.15 litres?	4:19 **2,150**
2. What is the missing number? 200 225 250 275 ☐	4:1 **300**	12. Complete the sum that is equal to 4 x 5 x 18: 20 x ☐	4:10 **18**		
3. Round this number to the nearest 1,000: 3,192	4:2 **3,000**	13. 932 x 4 =	4:11 **3,728**	22. Tick (✓) the shape that has **exactly** 2 lines of symmetry. 	4:25 **Rect-angle**
4. What is 1,000 **more** than 6,394?	4:2 **7,394**	14. To work out 4 x 55 you could do: 50 x ☐ + ☐ x 4	4:12 **4, 5**		
5. If the temperature starts at 5°C, then drops by 9°C, what is it now?	4:3 **-4**	15. $\frac{35}{40} = \frac{7}{?}$	4:13 **8**	23. Complete this shape: 	4:26 **Lines drawn**
6. What is the value of the **8** in this number? 6,283	4:4 **80**	16. What is the missing number? 9.96 9.97 9.98 9.99 ☐	4:14 **10(.00)**		
7. Write the number 74 in Roman numerals.	4:5 **LXXIV**	17. $\frac{2}{5} + \frac{4}{5}$	4:15 $\frac{6}{5}$	24. Number of tyres sold by a garage one weekend: Key: ⊕ = 4 tyres Saturday ⊕ ⊕ ⊕ ⊕ ∈ Sunday ⊕ ⊕ ⊕ ◿ 13 were sold on Sunday. Show this.	4:29 **Picto-gram drawn**
8. 4,115 - 1,472 =	4:6 **2,643**	18. Write 0.8 as a fraction.	4:16 $\frac{8}{10}$		
9. **Estimate** the answer to: 15,507 + 4,489	4:7 **20,000**	19. 293 ÷ 10 =	4:17 **29.3**		
10. From 300 tickets, pupils buy 89 & parents buy 184. How many are left?	4:8 **27**	20. Using £20 Rob buys a DVD for £6 and a CD for £6.95. How much left?	4:18 **£7.05**	25. How many tyres were sold in total over the weekend?	4:30 **31**