

Tuesday 23rd June

Hello Year 6,

How are you? We both hope that things are okay at home and that you are able to spend time completing your home-learning but also finding time to relax and have fun with your families.

Here are the activities for this week for you to follow and complete. In Maths we're consolidating our work on position and direction then moving on to explore line graphs. There's a number puzzle to finish the week off! You worked so hard in the last English unit that we decided to have a little break from writing and have put together lots of SPaG puzzles that we think you'll enjoy. There's PSHE, PE, Outdoor Learning and Art sprinkled in there too!!

If you have some spare time or want to do some extra learning, you could visit <https://www.bbc.co.uk/bitesize> or <https://www.thenational.academy/online-classroom> where there are lots of lessons and activities to choose from.

As always, try to read for at least 20 minutes a day and take Accelerated Reader quizzes from home by using this link [Howley Grange Renaissance at home](#) and logging on as usual using your username and password. To check that the book you are reading has a quiz, you can check it using on [Accelerated Reader Bookfinder](#).

Take care and keep smiling,

We do miss you,

Mrs Graham and Mrs North

English Activity 2 - SPaG tarsia puzzle

On the next slides you will find a tarsia puzzle linked to all of our learning on spelling, punctuation and grammar this year. It's just like a jigsaw puzzle with triangular pieces!

1. Print out and cut up all of the triangles.
2. Match up each side with its answer. Eg modal verb = I **might** be late
3. Create a large triangle.

Hints if you're stuck-

- Find the three corners first of all (they only have one edge that is written on)
- The triangles with two edges written on go around the outside of the shape
- Use your revision books to help

When you have finished, there is a blank template for you to create a tarsia puzzle of your own. It could be on any subject you like!

You will need to cut out the blank triangles, create the large triangle, then write each question and answer whilst it is complete (to make sure they match up correctly) before shuffling all of the pieces.

Remember to write down each question and its answer on a separate piece of paper so you can check the finished jigsaw.

Perhaps challenge someone at home to complete your tarsia puzzle.

Year 6 Grammar Revision
Tarsia Puzzle 1

Year 6 Grammar Revision
Tarsia Puzzle 1

Relative pronoun

She had eaten the last biscuit.

Root word
"What is your name?" he asked.

The man talked with an angry tone.

Future perfect form

The artist's painting was incomplete.

Prefix
The pudding was made by Michael.

Modal verb

My aunt and uncle were in disagreement.

Subordinate clause

The library is a place where I can find new books.

Adverbial phrase

Adjective

I might be late.

I will have finished the book tomorrow.

We live in an old house.

Passive voice

Main clause

Present continuous

She has lived here for ten years.

Past perfect form

Well, I did try, but... I got the job.

I won't do that again.

Direct speech

Subject

Although he was tired, Jim finished the book. I am looking for my keys.

Ellipsis
After Dad gets home, we will go to the park.

Present perfect tense

Subjunctive form

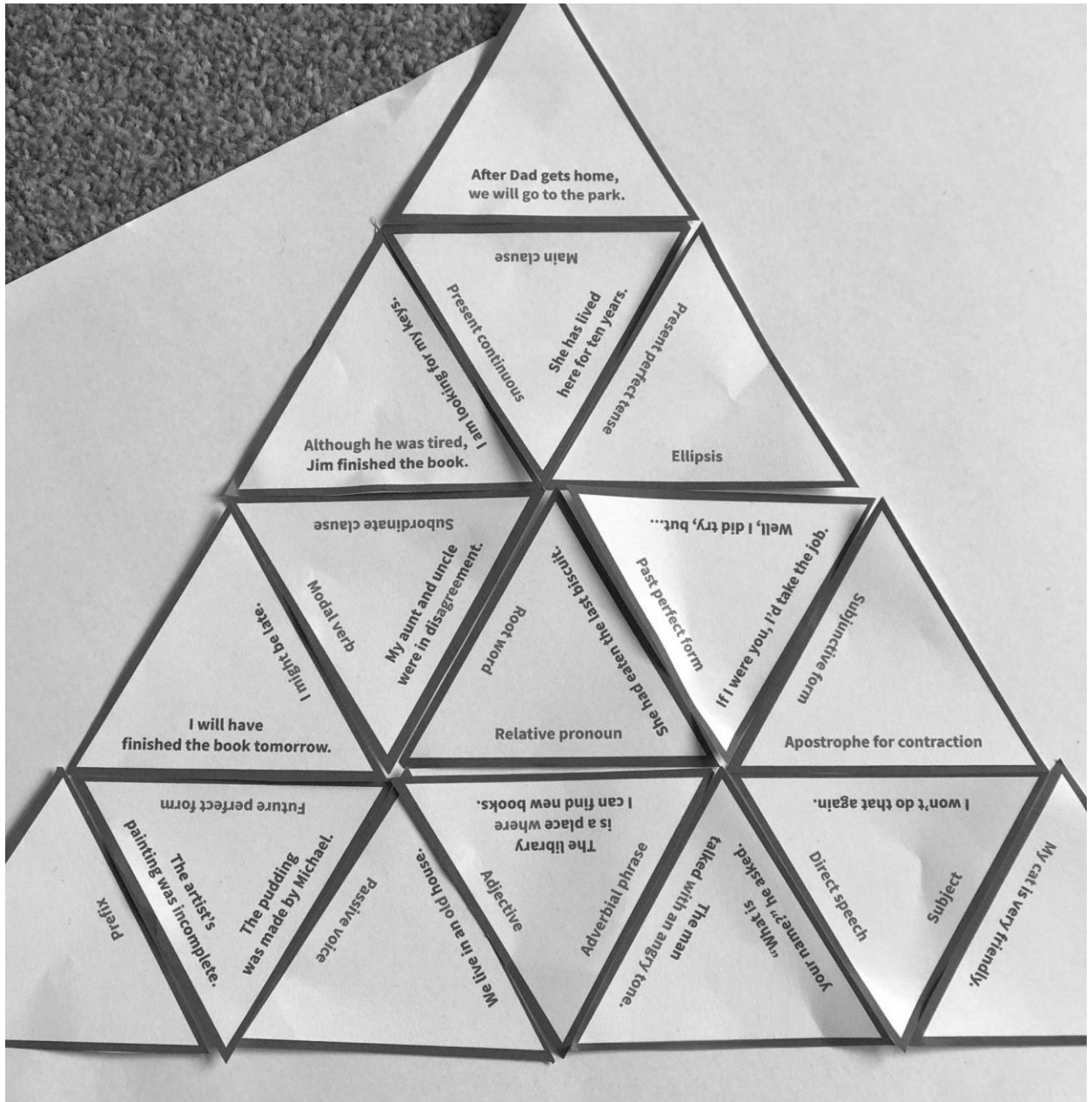
Apostrophe for contraction

My cat is very friendly.

Create your own tarsia puzzle!

Create your own tarsia puzzle!

ANSWERS English Activity 2 - SPaG tarsia puzzle



Maths Activity 2a - Ten in ten

- $300 + 0.4 + \underline{\quad} = 307.46$
- 372.6×100
- $67 \div \underline{\quad} = 9$ remainder 4
- How many metres less than 2km is 1.7km?
- Flowers cost 70p for 10. How much would I need to pay for 25 flowers?
- I need to mix brown paint using red, blue and yellow in the ratio of 2:1:3. If I need to mix 120ml of paint, how much yellow paint will I need?
- What is the value of $\frac{x + 8}{4}$ if $x = 12$
- The Salamanders guessed how far a frog could jump in a minute. Captain guessed 3.2m, Sally guessed 2.7m. Tyger guessed 2.1m. In the end, the frog jumped 245cm. Whose guess was closest?
- Convert $7\frac{2}{5}$ into a decimal.
- The perimeter of a regular hexagon is 42cm. What is the length of each side?

Remember - ten questions in ten minutes.

Maths Activity 2b - Reading and interpreting line graphs

Today we are starting to look at line graphs. The format of the questions is a little different as you will see.

For the first activity, the activities are differentiated as follows:



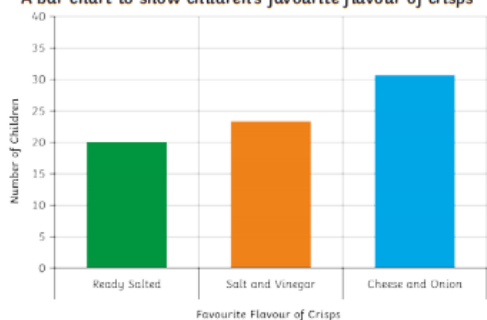
There are Varied Fluency (VF) questions on the left hand side of the page. These questions practise the learning. On the right hand side are Reasoning and Problem Solving (R / PS) questions which apply your learning.

Interpret and Present Data

- Information (data) can be presented as **tables, charts or graphs**.
- Look for them in books, on the television/ Internet or in the newspapers.
- **Interpreting data** means working out what the table, chart or graph shows and being able to answer questions about the information.

Bar Chart

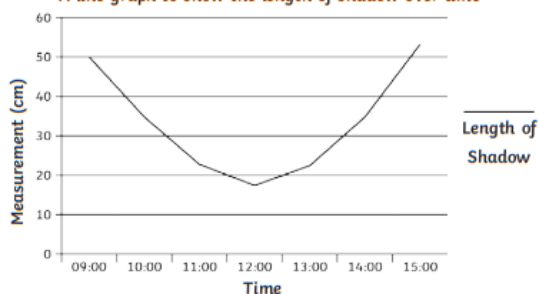
A bar chart to show children's favourite flavour of crisps



A bar chart has a horizontal axis and a vertical axis. Bars are used to show the data value of each category. There must be a gap between each bar. The scale of the bar chart is chosen based on the data range.

Line Graph

A line graph to show the length of shadow over time



Line graphs are used to show changes to a measurement over time. Data shown on a line graph is continuous. Sets of points are joined together to make the line.

Pie Chart

A pie chart to show children's favourite colour



Pie charts represent discrete data. A circle is divided into segments, where each segment represents a data category. The size of each segment matches its proportion of the total data amount.

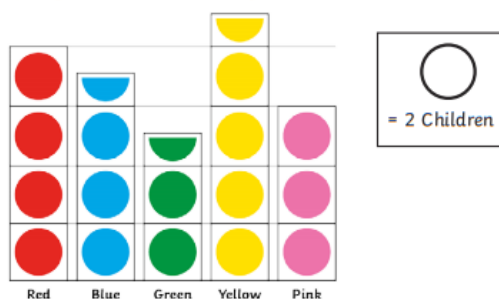
Frequency Table

Eye Colour	Tally	Frequency
brown		6
blue		8
green		3
grey		4
hazel		5

Tally marks are used for counting things. Each vertical line represents one unit. The fifth tally mark in a group is always drawn across the first four to make it easier to count. The frequency column is completed after all the data has been collected.

Pictogram

A pictogram to show children's favourite colour



A pictogram uses pictures or symbols to represent data. This pictogram uses one picture or symbol to represent two or more values.

Maths Activity 2b - Reading and interpreting line graphs

1a. Which of the following could you show on a line graph?

- A. How much snow falls over 24 hours.
- B. Your favourite pizza toppings.



VF

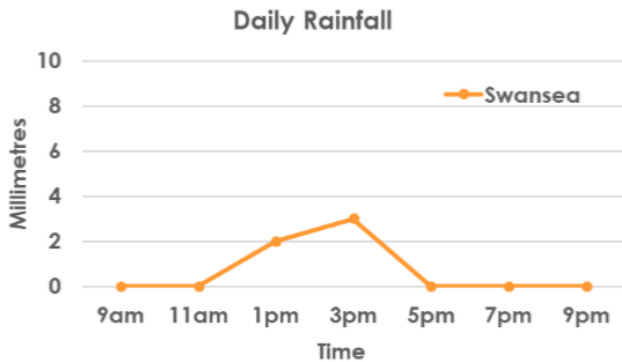
1a. Carrie is recording the amount of milk left in the jug in her fridge throughout the week. Which graph most likely shows her data? Explain how you know.



R

2a. True or false?

The graph shows that it rained from 9am to 9pm in Swansea.



VF

2a. Anton and Lea are interpreting this graph. Anton says, "It took the family 5 hours to walk 10 kilometres."

Lea says, "The family had a break after walking for 3 hours."

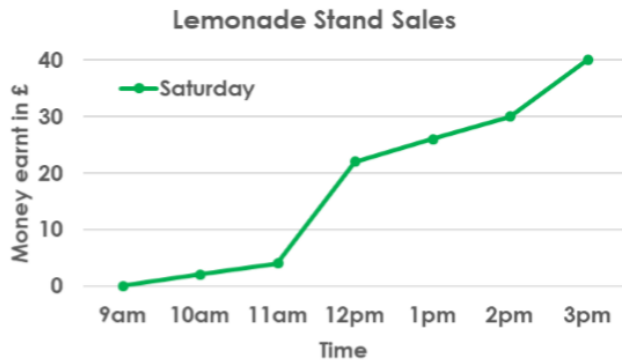
Who is correct? Explain.



R

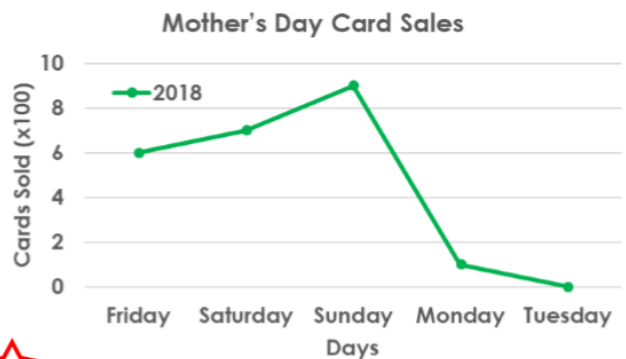
3a. According to the graph, which statements are correct?

- A. The stand was busiest from 11am-12pm.
- B. The stand sells ice cream.



VF

3a. Caring Cards Company earns £100 profit for every 100 cards sold. How much did they profit from Mother's Day cards? Why did sales drop so quickly on Monday?



8

PS

Maths Activity 2b - Reading and interpreting line graphs

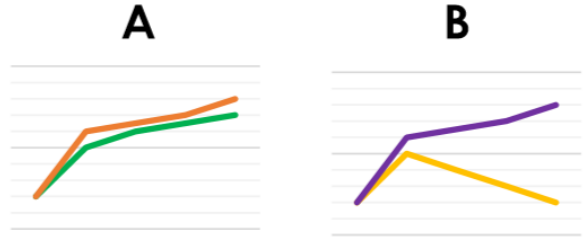
4a. Which of the following could you show on a line graph?

- A. The titles of all the books read over a summer holiday.
- B. How far two people can run in 2 hours.
- C. How the price of milk and butter has changed over 20 years.



VF

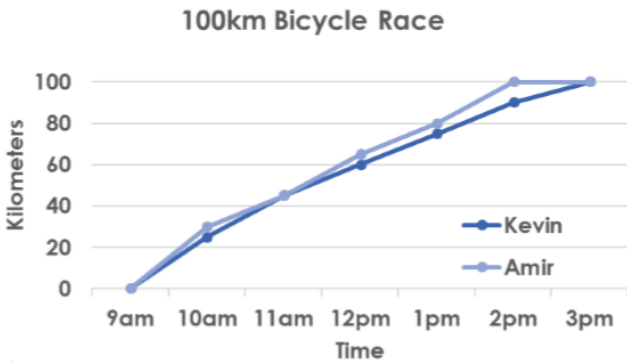
4a. The health visitor is recording the height of twins during their first year. Which graph most likely shows her data? Explain how you know.



R

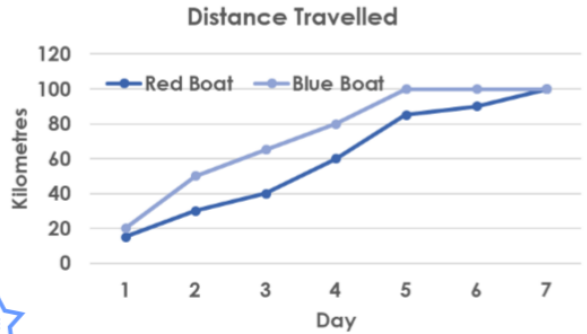
5a. True or false?

Kevin won the bicycle race.



VF

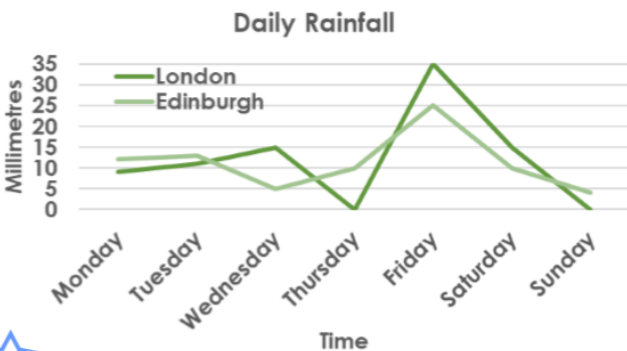
5a. Yulia and Naveed are interpreting a graph. Yulia says, "The blue boat reached their destination on Day 5." Naveed says, "The red boat travelled 100km between Day 6 and Day 7." Who is correct? Explain.



R

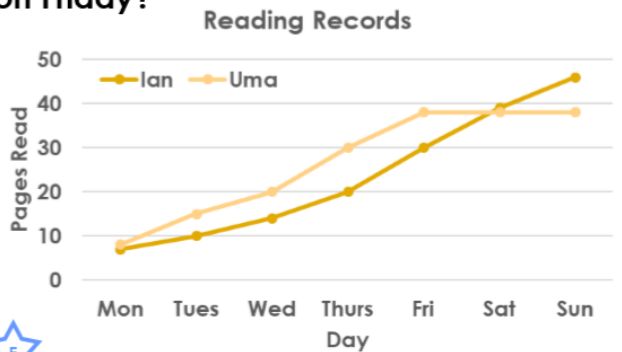
6a. According to the graph, which statements are correct?

- A. Both cities had one day with no rain.
- B. Friday was the rainiest day in both cities.



VF

6a. Every Friday, Ian and Uma's teacher gives a sticker for every multiple of 10 pages they read. Who received the most stickers this week? Who read the most pages in total? Why did Uma stop reading on Friday?



PS

Maths Activity 2b - Reading and interpreting line graphs

7a. Complete the table by giving an example of data that can be represented by each of the graphs or charts below.

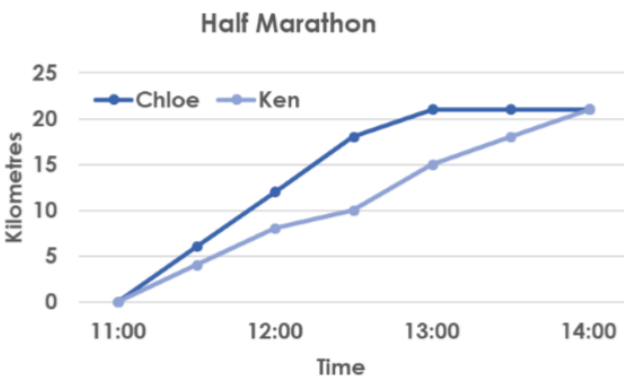
Line Graph	
Bar Chart	



VF

8a. True or false?

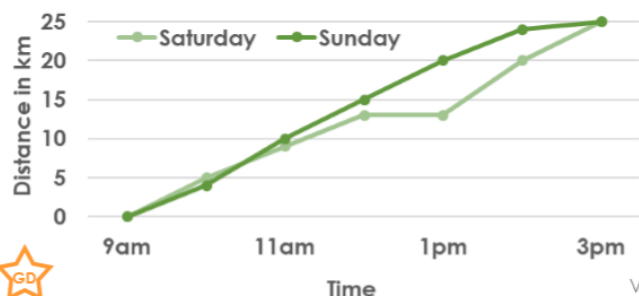
Both friends finished the half marathon (21km) by 1:30pm.



VF

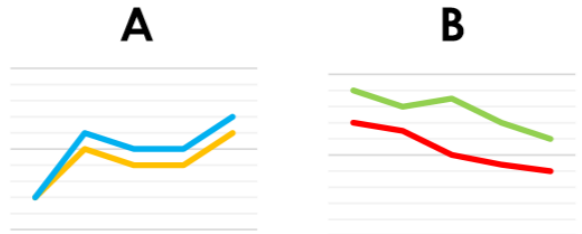
9a. According to the graph, which statements are correct?

- A. On Sunday, the hiker walked quickest after 2pm.
- B. The hiker had walked 5km by 10am on Saturday.
- C. The hiker stopped for a break at 12pm on Saturday.



VF

7a. Write your own story to match the data in the two graphs below.

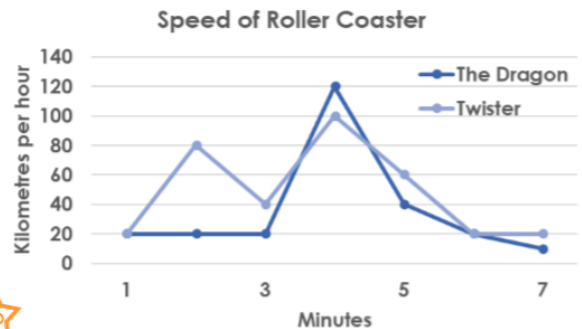


R

8a. Fazir and May are interpreting a graph.

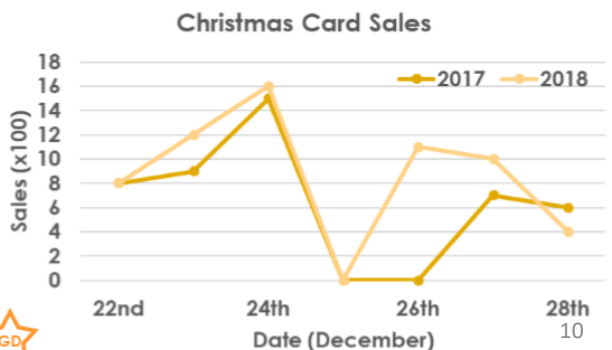
Fazir says, "The Dragon has a rapid increase in speed at 3 minutes."

May says, "The Twister goes the fastest." Who is correct? Explain.



R

9a. Carl's Cards makes its biggest profit in the holiday season. What date is the shop closed for business? If the shop earns £200 for every 100 cards sold, which year made the biggest profit?

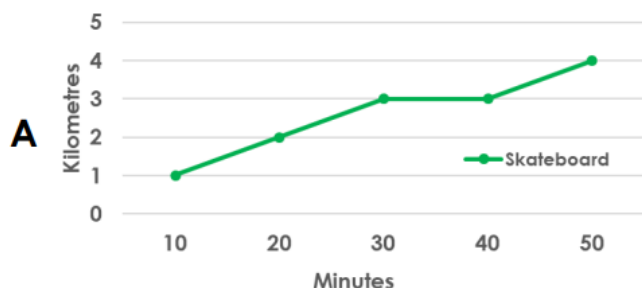


PS

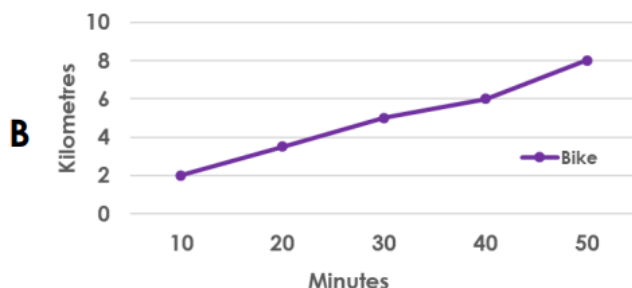
Maths Activity 2c ★ Reading and interpreting line graphs

1. Identify whether each statement relates to graph A or graph B.

Travelling



Travelling



- 1) The distance travelled in 40 minutes was 6km.
- 2) There was a rest period of 10 minutes.
- 3) A distance of 1km was travelled between 10 and 20 minutes.
- 4) The distance travelled in 30 minutes was 5km.



VF
HW/Ext

2. Lenny has answered some questions about the line graph below. Mark his work and correct any mistakes.

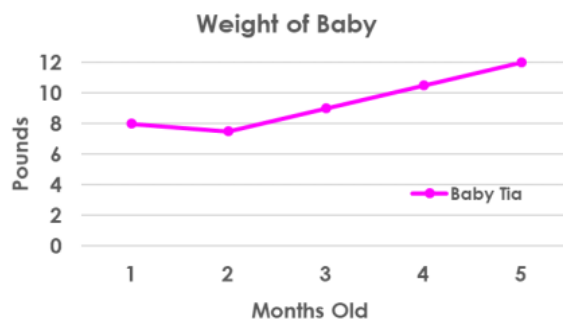
A. Tia lost weight between 2 and 3 months.

B. Tia weighed about 9lbs at 3 months old.

C. Tia has gained 2lbs since the 1st month.

D. Tia weighed 12lbs at 5 months old.

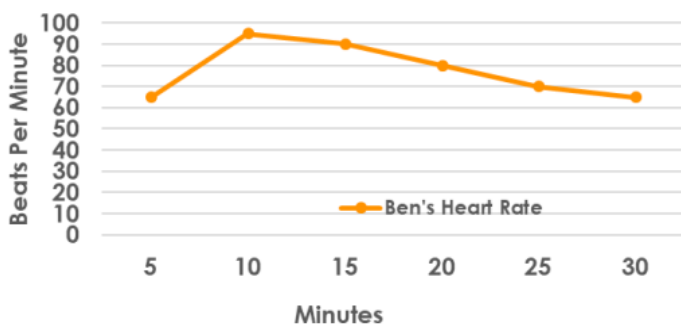
E. Tia weighed under 11lbs at 4 months old.



VF
HW/Ext

3. Class 6F were investigating the effect of exercise on the heart rate. They plotted their results on the graph below.

Heart Rate Investigation



Mr Faraday

Ben's heart takes 15 minutes to return to its resting heart rate after exercise.

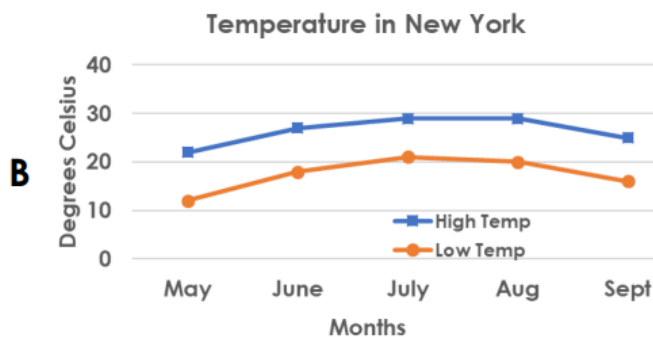
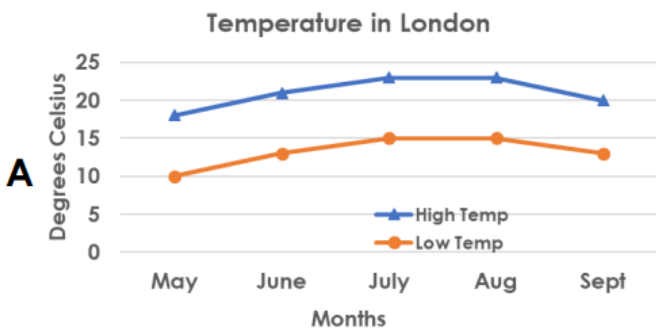
Is he correct? Prove it.



RPS
11 HW/Ext

Maths Activity 2c - Reading and interpreting line graphs

4. Identify whether each statement relates to graph A or graph B.



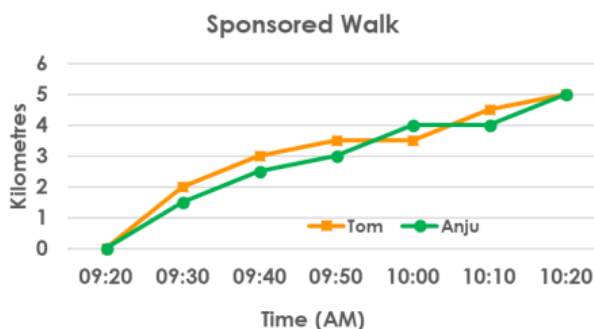
- 1) The lowest temperature in May was 10°C .
- 2) The highest temperature in August was 29°C .
- 3) The difference between the high and low temperature in September was 7°C .
- 4) The low temperature in July was above 20°C .



VF
HW/Ext

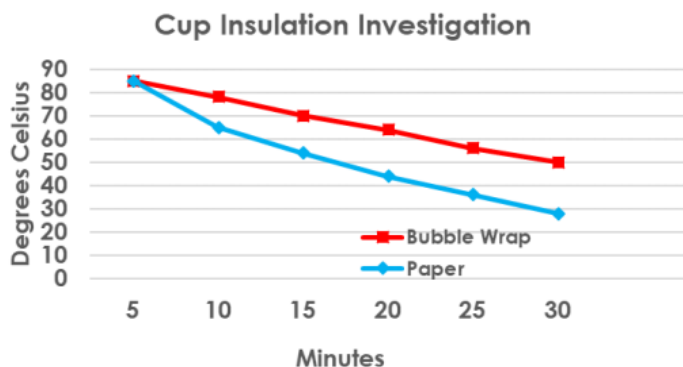
5. Sasha has answered some questions about the line graph below. Mark her work and correct any mistakes.

- A. Tom had a rest at 9:50am.
- B. Anju walked 3km in the first 20 minutes.
- C. Tom rested for 5 minutes.
- D. Anju rested at 9:40am.
- E. Tom walked 0.5km in the last 10 minutes.



VF
HW/Ext

6. Class 6C were investigating which material was best at maintaining the temperature of a hot drink. They plotted some of their results on the graph below.



Mrs Cauldron

After 30 minutes, the temperature of the drink insulated with bubble wrap, was 50°C warmer than the drink insulated with paper.

Is she correct? Prove it.

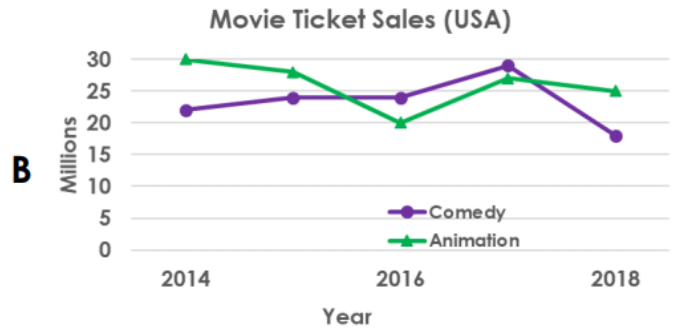
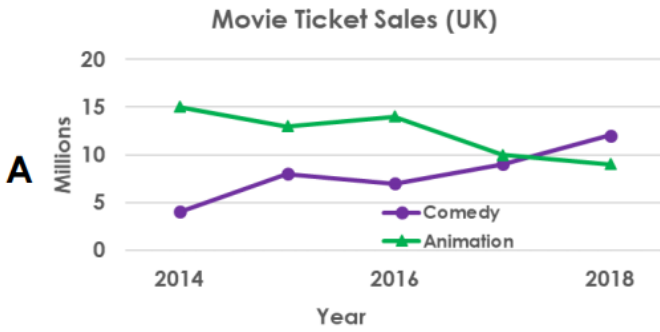


12 RPS
HW/Ext



Maths Activity 2c - Reading and interpreting line graphs

7. Identify whether each statement relates to graph A or graph B.



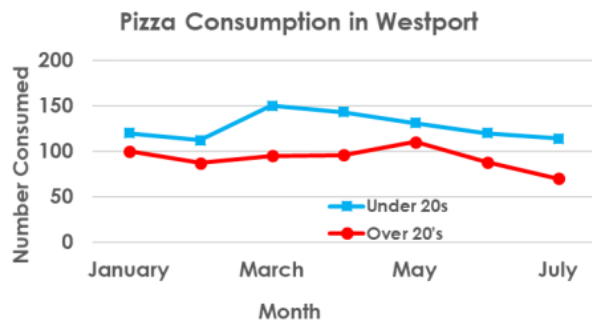
- 1) In 2017, comedy films were more popular than animation films.
- 2) In 2015, 8 million people watched a comedy film.
- 3) In 2016, 7,000,000 more people watched an animation than a comedy.
- 4) 2 million more people watched a comedy than an animation film in 2017.



VF
HW/Ext

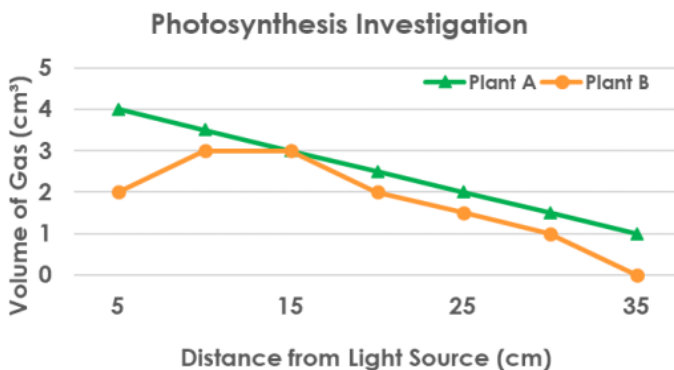
8. Rob has answered some questions about the line graph below. Mark his work and correct any mistakes.

- A. In May, the over 20s ate about 110 pizzas.
- B. In March, the under 20s ate about 100 pizzas more than the over 20s.
- C. In February, the under 20s ate more than 125 pizzas.
- D. Both groups ate the most pizzas in March.
- E. This data was collected over 4 months.



VF
HW/Ext

9. Class 6H were investigating how the speed of photosynthesis is affected by the intensity of light that a plant receives.



Mr Hawking

Both results show that the further away from the light source the plant is, the less gas it produces.

Is he correct? Prove it.



RPS
13 HW/Ext

ANSWERS Maths Activity 2a - Ten in ten

1.	$300 + 0.4 + \underline{\quad} = 307.46$	7.06
2.	372.6×100	37260
3.	$67 \div \underline{\quad} = 9$ remainder 4	7
4.	How many metres less than 2km is 1.7km?	300m
5.	Flowers cost 70p for 10. How much would I need to pay for 25 flowers?	£1.75
6.	I need to mix brown paint using red, blue and yellow in the ratio of 2:1:3. If I need to mix 120ml of paint, how much yellow paint will I need?	60ml
7.	What is the value of $\frac{x + 8}{4}$ if $x = 12$	5
8.	The Salamanders guessed how far a frog could jump in a minute. Captain guessed 3.2m, Sally guessed 2.7m. Tyger guessed 2.1m. In the end, the frog jumped 245cm. Whose guess was closest?	Sally
9.	Convert $7\frac{2}{5}$ into a decimal.	7.4
10.	The perimeter of a regular hexagon is 42cm. What is the length of each side?	7cm

ANSWERS Maths Activity 2b - Reading and interpreting line graphs

VF

R/PS

Developing ★

- 1a. A
2a. False, it rained from 11 am to 5 pm.
3a. A is correct.

Expected ★★

- 4a. B and C
5a. False, Amir won the race.
6a. B is correct.

Greater Depth ★★★

- 7a. Various answers, for example:
Line graph = weight of a baby measured on the same day every month for a year.
Bar chart = number of children in class born on different days of the week.
8a. False as Ken still has 3km to run.
9a. B and C are correct.

Developing ★

- 1a. B shows her data, because the amount of milk would decrease throughout the week.
2a. Anton is correct. The graph does not show that the family stopped hiking after 3 hours.
3a. They made £2,300 profit on cards. Sales dropped because Mother's Day happened on Sunday, and not as many people needed to buy cards after Mother's Day.

Expected ★★

- 4a. A shows her data because the twins would gain in height but at slightly different rates. B suggests that the height of one twin decreases over time.
5a. Yulia is correct because the blue boat stopped travelling on Day 5. The red boat travelled 100km in total, not in one day.
6a. Ian gets the most stickers. Ian read more pages in total (looking at Saturday and Sunday). Uma could have finished her book on Friday.

Greater Depth ★★★

- 7a. Various answers, for example:
A = Two runners travelling the same route and over the same terrain but one is faster than the other.
B = The temperature of two cities in the UK recorded from Summer to Autumn.
8a. Fazir is correct. The Dragon also goes 20km/hour faster than The Twister, so it is the fastest ride.
9a. The shop is closed on Christmas Day. The biggest profit was made in 2018 (£12,200).

ANSWERS Maths Activity 2c - Reading and interpreting line graphs

Developing ★

- 1 = B, 2 = A, 3 = A, 4 = B
- A and C are incorrect. Corrections: A = Tia gained weight between months 2 and 3; C = Tia has gained 4lbs since month 1
- Mr Faraday is incorrect as it takes 20 minutes for Ben's heart rate to return to its resting heart rate of 65 beats per minute.

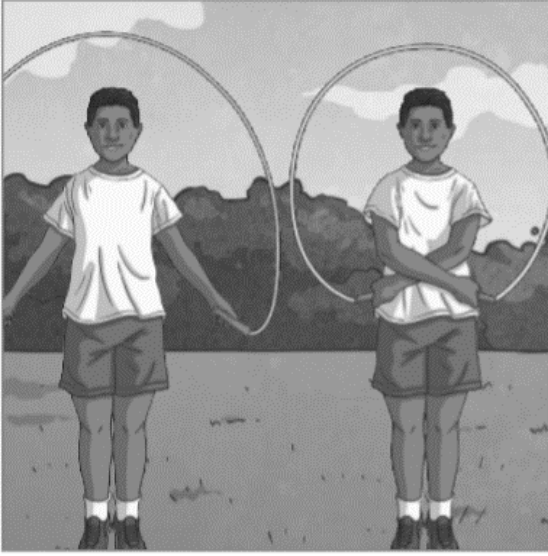
Expected ★★

- 1 = A, 2 = B, 3 = A, 4 = B
- B, C and D are incorrect. Corrections: B = Anju walked 2.5km; C = Tom rested for 10 minutes; D = Anju rested at 10:00am
- Mrs Cauldron is incorrect as the temperature of the hot drink with bubble wrap was 50°C and the temperature of the hot drink with paper was 28°C. This means that the drink insulated with bubble wrap was 22°C warmer than the drink insulated with paper.

Greater Depth ★★★

- 1 = B, 2 = A, 3 = A, 4 = B
- B, C, D and E are incorrect. Corrections: B = the under 20s ate about 50 pizzas more; C = the under 20s ate less than 125 pizzas; D = only the under 20s ate more pizza in March; E = the data was collected over a 7 month period
- Mr Hawking is incorrect as the results for Plant B show that when the plant was only 5cm away from the light source, it produced 1cm³ less gas than when it was 10cm away. It also produced the same amount of gas when it was 10cm and 15cm away.

Move at Home: Skipping Workout 2

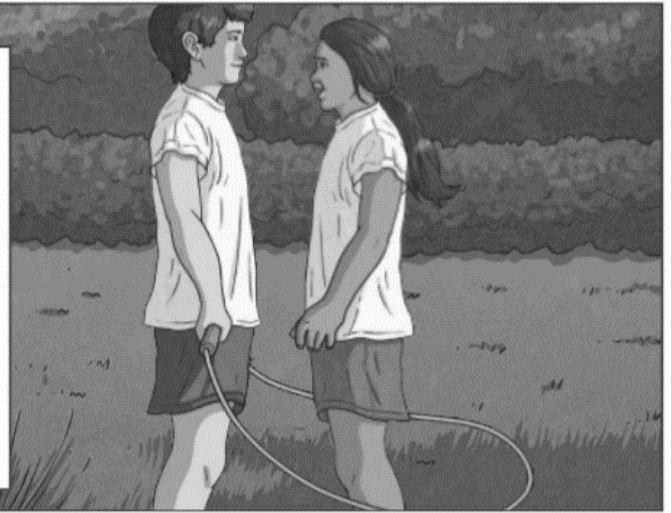


Criss-Cross

- Hold the rope behind you, as you normally would, to start.
- Complete a 'normal' skip.
- As the rope comes over your head again, cross your arms over so that your hands are by your hips.
- Jump the rope as it comes down to your feet.
- Repeat this pattern and keep it up!

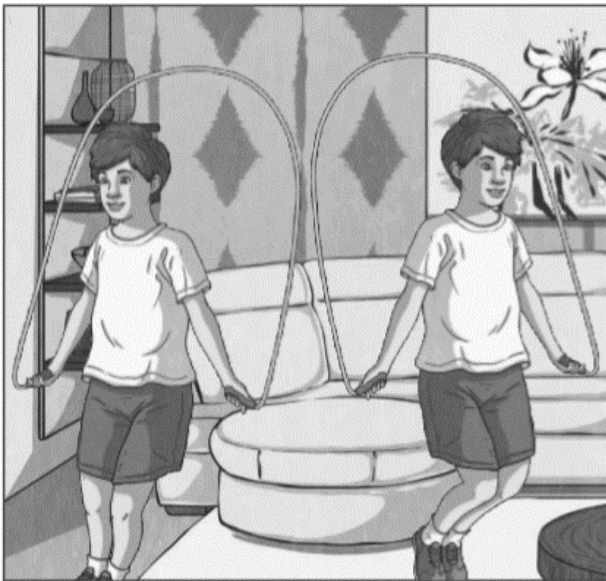
Face to Face

- You will need someone who lives with you to help with this activity!
- Stand close together and face to face.
- The taller person should hold the rope.
- Bring the rope over both your heads.
- Both jump over the rope at the same time.



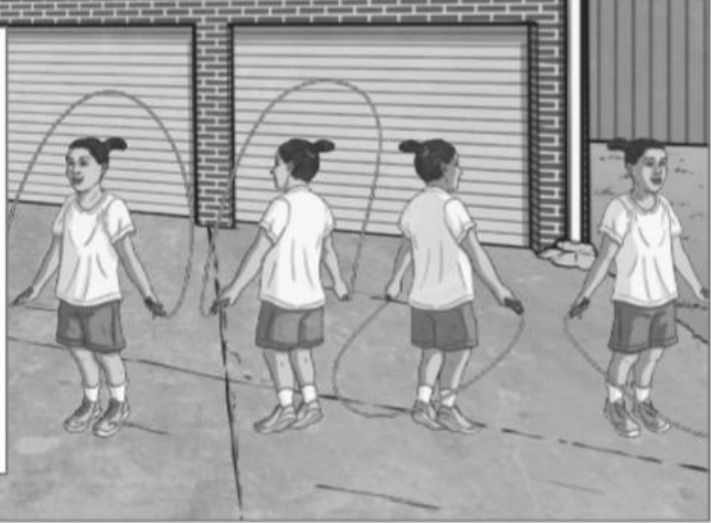
Skiing

- Mark a line on the ground using chalk. Alternatively, place a piece of string or other marker on the ground. Make sure it won't trip you up.
- Stand to one side of the line and jump over the rope, landing on the other side of the line.
- Continue jumping side to side over the line.



Full Circle

- Jump over the rope facing forwards.
- Try to turn your body slightly so that you land facing in a slightly different direction but still in the same spot.
- Continue jumping and turning your body.
- Can you turn in a full circle?



Back to Front

- You will need someone who lives with you to help with this activity!
- Stand close together and back to front.
- The taller person should hold the rope.
- Bring the rope over both your heads. Both jump over the rope at the same time.

High Low

- Stand up straight and skip normally.
- When you feel ready, try to crouch a bit lower and continue skipping.
- Then stand up straight again. Keep skipping.
- Can you do three high skips and three low skips?

