



HILL WEST  
*Primary*

FOUR OAKS

# Home Learning Pack

Year 5

Spring Term Week 7



## Home Learning Links

### Oak National Academy

Oak National Academy is an online classroom and resource hub. It provides high-quality video lessons and resources to support teachers, parents and pupils.

[www.thenational.academy](http://www.thenational.academy)

### BBC Bitesize

With BBC Bitesize it is easy to keep learning at home. You can access regular daily lessons in English, maths and other core subjects.

<https://www.bbc.co.uk/bitesize>

### World Book Online

World Book online have just made their fabulous collection of over 3,000 e-books and audiobooks available for free for children to access at home. They have books suitable for all ages. Click on the following link to access them.

<https://worldbook.kitaboo.com/reader/worldbook/index.html?usertoken=Mjk5MzQ6MTpJUjA5MjAxNjoyOmNsaWVudDE2OTc6MTY5NzoyMjE2Mjg4OjE6MTU4NDM4MDEzMzA2Mjp1cw%3D%3D>

### Read Works.org

Read Works offers access to 3000+ comprehension for all age groups. Just sign up for a free account to access fantastic texts.

<https://www.readworks.org/>

### Tutortastic

An online platform with tutorials and videos for home learning.

<https://www.tutortastic.co.uk/blog/homelearning>

### Education Quizzes

A series of short quizzes for children to complete related to the National Curriculum subjects. Just select KS1 for Reception, Year 1 & Year 2 and select KS2 for Years 3-6.

<https://www.educationquizzes.com/ks1/>

### Top Marks

A range of activities here but especially good interactive activities for maths.

<https://www.topmarks.co.uk/>

### Classroom Secrets

Classroom Secrets Kids is offering free access to everyone until the end of April 2020. The platform is aimed at primary aged children and covers subjects such as maths, reading, grammar and spelling. The platform is really child-friendly so that they're able to access it on their own. There are a load of games and interactive activities from phonics to SATs

<https://kids.classroomsecrets.co.uk/>

### National Geographic

National Geographic is a great platform for learning and it's totally free. There are online games, resources and competitions, too.

<https://www.natgeokids.com/uk/teacher-category/primary-resources/>

### Reading Eggspress

Reading Eggspress has lots of reading activities including comprehension and retrieval questions to have a go at. Your child's Username and Password should be written in his Homework Book.

We have been learning about division this week, mostly looking in-depth at partitioning and we will transition into using the short method for division. Here are some great maths games to play on Laptops or iPads.

<https://www.topmarks.co.uk/Search.aspx?q=division>

### Times Tables Rockstars

This is a great times tables game, practice all of the tables up to 12 x 12. Log- in should be in Homework book/ Reading diary.

<https://ttrackstars.com/>

## Handwriting

Please spend time each day practising the 'al' join as modelled below.

Remember:

- To hold your pencil/pen correctly.
- To sit on a chair and a desk with a straight back whilst practising your handwriting.

Practise writing the following words, ensuring that all joins within the word are carefully followed.

park

palace

museum

theatre

boat

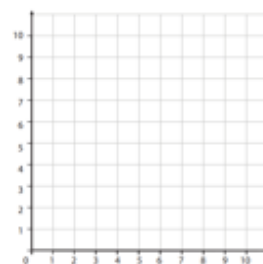
**A** Break letters do not join. Copy the break letters.

b p g q j x y z

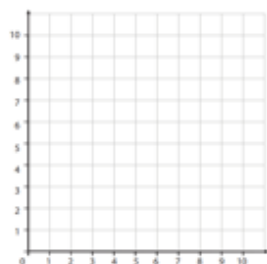
## Monday Maths

1 How many points does a square have?

2 What is the vertical axis called?



3 What is the horizontal axis called?

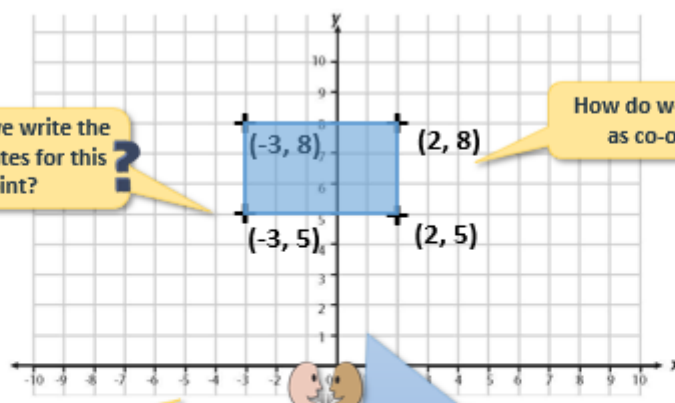


4 What are the missing numbers?



Misconception: Tom is writing negative numbers: -5, -6, -7, -8, -9 -10, 0, 1, 2, 3...  
What did he do wrong?

How do we write the co-ordinates for this point?

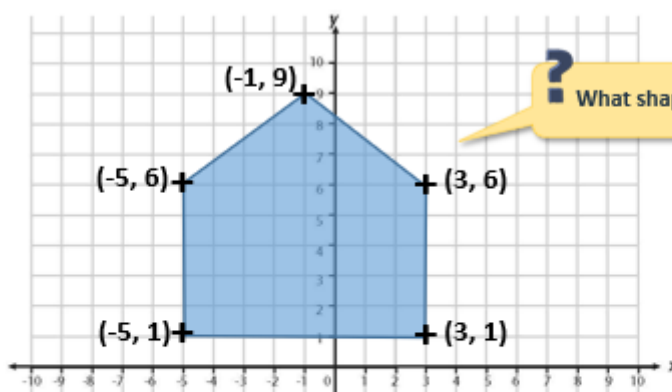


How do we write these as co-ordinates?

Look how the numbers on the x-axis to the left of the y-axis are negative numbers, counting back.

These are three of the four vertices of a rectangle. Talk to your partner about what the co-ordinates of the missing vertex would be.

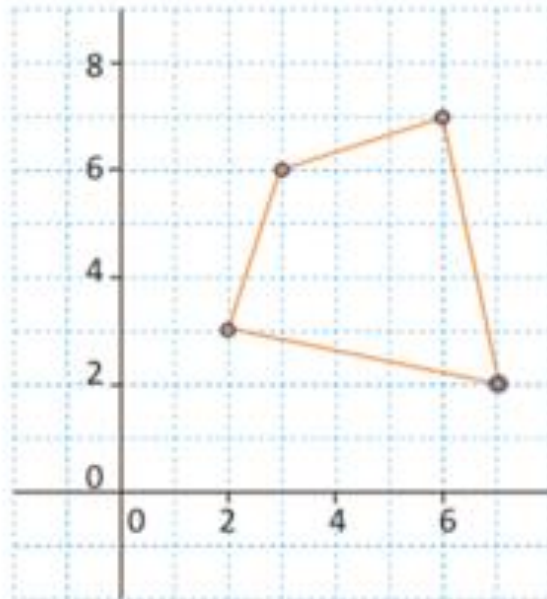
The x-axis goes across. When reading and plotting, the x co-ordinate goes first and then the y. *Walk before you fly!*



What shape is this?

Copy the pentagon (not the grid) and label the co-ordinates of its vertices.

1. Write down four single-digit numbers, for example 2, 3, 6, 7.
2. Use these to produce four pairs of co-ordinates. Take the first two numbers to produce the first pair (2, 3), the second and third number to give the second pair of co-ordinates (3, 6), the third and fourth number to give the third pair of co-ordinates (6, 7) and then cycle round using the last and first numbers to give the last pair of co-ordinates (7, 2).
3. Plot the four points, then join them together. What shape have you drawn?



4. Now try 2, 6, 5, 1. What shape do they form this time?
5. Now try groups of your own four numbers. See what different types of quadrilateral you can produce?  
Can you write a rule for producing kites? Can you write a rule for producing squares?

### Monday English

For each character from 'The Boy at the Back of the Class' write about how they are feeling at these points:

Ahmet -

When Ahmet was fleeing his country

When Ahmet came to school for the first time

When Ahmet realised he could not live with his parents

When the other children found out what had happened to Ahmet

Tom-

When Ahmet came to school for the first time

When Tom found out what had happened to Ahmet

When Tom found out why Ahmet was not living with his family

The narrator -

When Ahmet came to school for the first time

When the narrator found out what had happened to Ahmet

When the narrator found out why Ahmet was not living with his family

### Monday French

Learn the family members in French. Read the short texts and write about your own family.

<b>my father</b>	<b>ma grand-mère</b>
<b>my mother</b>	<b>mon père</b>
<b>my sister</b>	<b>mon grand-père</b>
<b>my brother</b>	<b>ma mère</b>
<b>my grandmother</b>	<b>mon frère</b>
<b>my grandfather</b>	<b>ma tante</b>
<b>my aunt</b>	<b>ma soeur</b>

<b>my uncle</b>	<b>mon cousin</b>
<b>my cousin (girl)</b>	<b>mes parents</b>
<b>my cousin (boy)</b>	<b>mes frères</b>
<b>my parents</b>	<b>ma cousine</b>
<b>my grandparents</b>	<b>mes soeurs</b>
<b>my sisters</b>	<b>mon oncle</b>
<b>my brothers</b>	<b>mes grands-parents</b>





**Voici:** here is/are  
**Voilà:** there is/are  
**C'est:** it is/ this is  
**Ce sont:** these are



**Bonjour!**

Voici ma mère. Elle s'appelle Marge,

Et c'est mon père. Il s'appelle Homer.

Et voilà mes grands-parents ils

s'appellent Jackie et Abe.

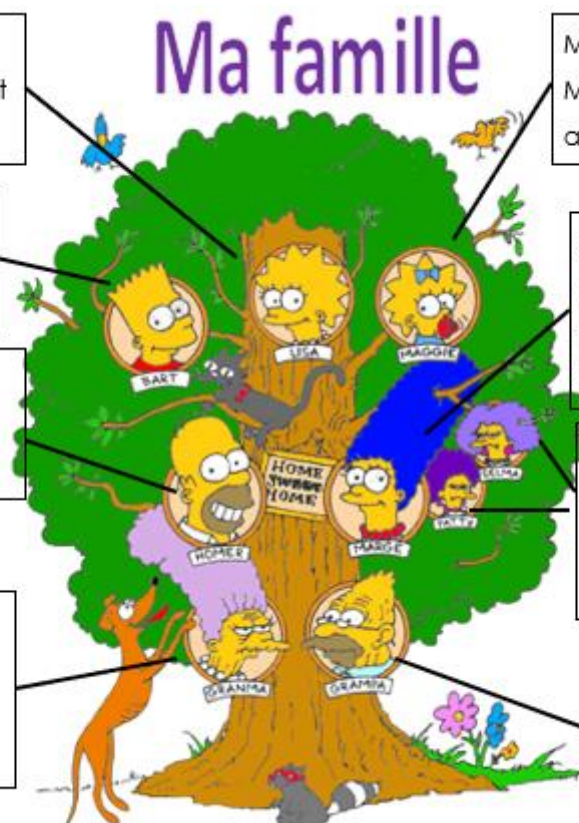


C'est ma soeur Lisa  
qui a huit ans .Elle est  
intelligente!

Voici mon frère  
Bart qui a dix ans.  
Il est rebelle!

Mon père Homer a  
quarante ans. Il est  
paresseux et gros.

C'est Jackie, ma  
grand-mère, qui a  
soixante-deux ans.  
Elle est grincheuse!



Ma soeur s'appelle  
Maggie et elle a un  
an. Elle est marrante.

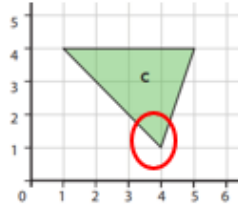
C'est ma mère  
Marge qui a  
trente-deux ans.  
Elle est gentille.

Mes tantes Patty et  
Selma ont  
trente ans et  
quarante ans.

Mon grand-père  
Abe a soixante-  
cinq ans et il est  
distract.

## Tuesday Maths

- 1 Write the coordinates for the following point:

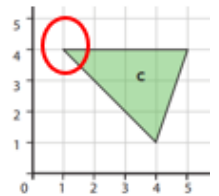


- 2 How many sides does a heptagon have?

- 3 True or False: The horizontal axis is called the y-axis.

- 4 What number is placed at the point where the x and y-axis meet?

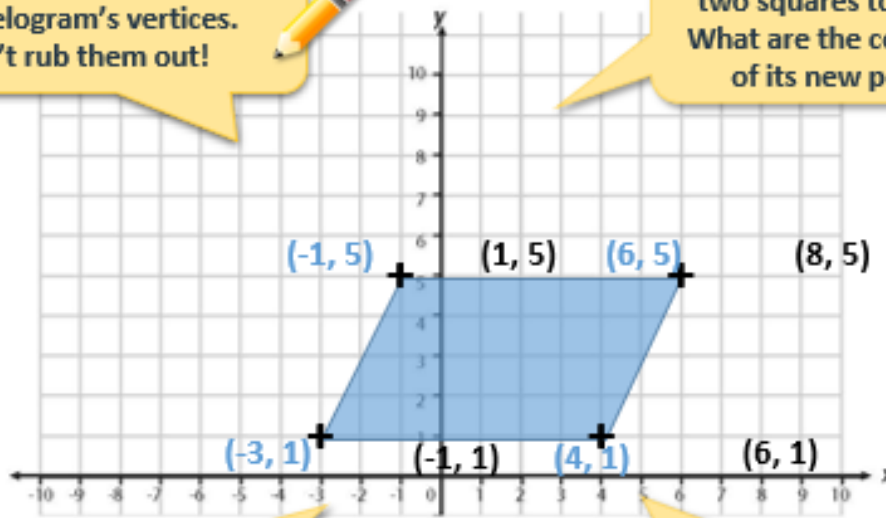
Misconception: Stevie plots this shape. She says that the circled Point is (4,1). Is she correct?



Write the co-ordinates of the parallelogram's vertices. Don't rub them out!



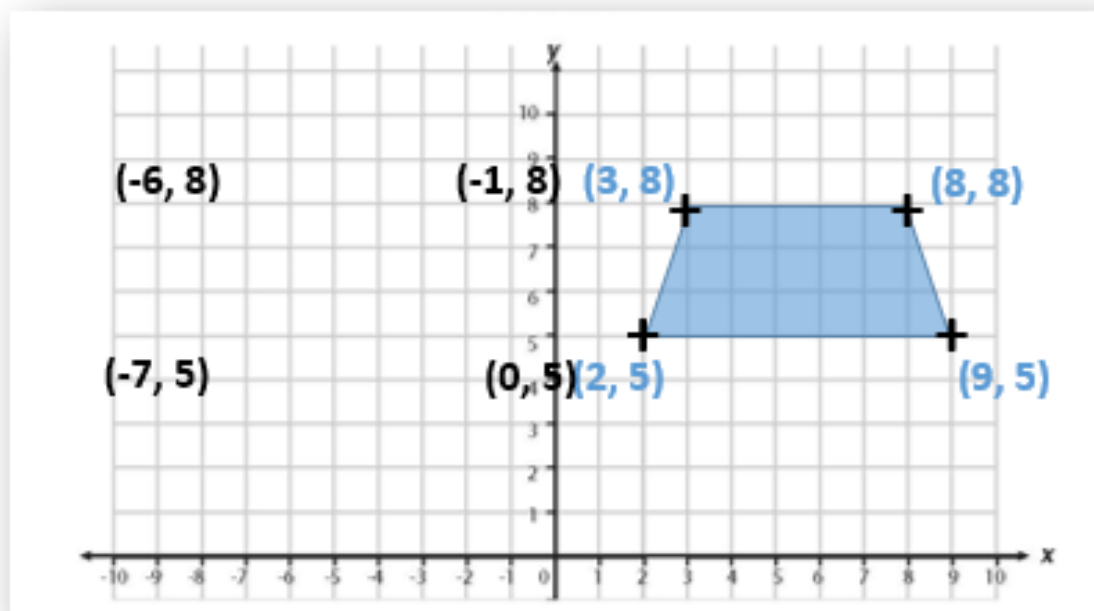
This parallelogram moves two squares to the right. What are the co-ordinates of its new position?



Look how each x-value has been increased by 2, but the y-values have stayed the same.

This shape has been translated. This means that it has moved but kept its original shape and orientation.





**This trapezium moves nine squares to the left.**

**Sketch the shape and label the co-ordinates of its new position.**



Choose five different coloured pencils.

Join the first set of points using one colour, then translate the shape, marking its new position in the same colour.

Write the new co-ordinates at each vertex.

Repeat for each set of points in a different colour.

1.  $(1, 1), (1, 4), (5, 4), (5, 1)$ . Translate the shape 2 squares to the left.
2.  $(1, 9), (2, 8), (4, 8), (5, 9), (4, 10), (2, 10)$ . Translate the shape 3 squares down.
3.  $(-5, 5), (-5, 6), (-2, 5)$ . Translate the shape 4 squares to the right.
4.  $(-8, 1), (-6, 3), (-2, 3), (-4, 1)$ . Translate the shape 5 squares to the right.
5.  $(6, 6), (7, 7), (9, 7), (10, 6)$ . Translate the shape 5 squares to the left.

What happens to the co-ordinates when you move a shape up? And down?

What happens when you move a shape to the left? And right?

## Tuesday English

We are going to be writing a letter to inform the Queen of the gates closing at the border, stopping children like Ahmet from being with their families.

We will need to:

Explain the situation to the Queen.

Explain to the Queen how she can help.

Persuade her to help Ahmet and his family.

### Modal verbs

An auxiliary verb that expresses necessity or possibility. English modal verbs include must, shall, will, should, would, can, could, may, and might.

Using modal verbs could really help persuade The Queen to help Ahmet and other refugees.

Create sentences to the Queen about this issue for Ahmet using the modal verbs below:

Can

Would

Will

Must

May

Won't

For example:

We must help Ahmet and his family to be reunited.

Hill West Primary School  
Clarence Road, Sutton Coldfield  
B74 4LD

Friday 4<sup>th</sup> February

Her Majesty the Queen  
Buckingham Palace Road, London  
SW1A 1AA

|

Dear Madam,

My name is Mr Henrick and I am writing to inform you about an ongoing event that is unmerited and discriminatory. A boy named Ahmet has been separated from his family whilst fleeing from his home country, Syria.

Ahmet is a 9-year-old boy who has recently had to flee from his own country because of the war inevitably endangering him and his family. He is now a refugee... Buildings in Syria are currently ablaze, bombs are landing with devastating impact by destroying buildings and massacring thousands of lives. Ahmet and his family were compelled to abscond and travel across unforgiving terrain like mountains and rivers. This resulted in the catastrophic consequence of Ahmet's cat dying in the mountains and younger sister dying in the sea as they were unable to withstand the brutal environment. When Ahmet and his family were fleeing Syria (their home), they were greeted by a wall littered with barbed wire and a military force aiming guns at the children and other refugees pleading for safety and their lives. Unfortunately, only Ahmet was able to cross the border into our country. His mother and father were lost. Ahmet is all alone and without his family. He is distraught and isolated. How would this make you feel?

Furthermore, I have now been informed of the troubling news that our country plans to close the gate and refuse to allow more refugees to enter our beautiful safe haven. This news is appalling and may mean that Ahmet loses his Mother and Father forever. You need to help him and you need to help thousands of other families to be reunited.

I believed it was my responsibility to bring this issue to your attention. However, I do not have the power or the authority to prevent the gates from being closed. Whereas, you have the capabilities. You have the power and with great power, comes great responsibility. Ahmet needs you! Thousands of families need you!

I am not asking for you to help Ahmet and the other refugees, I am instead telling you that this is your moral obligation as Queen of the Commonwealth. I implore you, please act now and act swiftly!

I look forward to your rapid response to this urgent matter.

Yours sincerely,

Mr A. Henrick

## Tuesday Science

- 1) Complete the table by investigating the material properties of these items. These will be found on your resource table. (Insert ✓ for yes or ✗ for no).

Property Item	Hard	Soft	Transparent	Bendy	Rigid	Stretchy	Waterproof
Mug							
Chair							
Towel							
Pencil							
Door							
Ruler							
Gloves							
Salt Pot							
Shoe lace							

- 2) Explain why the following materials are selected to make the following items.  
The words below may help you (provide more than one reason).

*rigid    lexible    impermeable    durable    smooth    warm    insulator*  
*grip    soft    hard    transparent    opaque    light    tough*



Glass for windows



Rubber for soles



Wool for a jumper



Plastic for a socket



Leather for  
boxing gloves



Cotton for a towel



Rubber for a hot  
water bottle



Wood for a chair

**Materials** mean the stuff that things are m\_\_\_\_\_ from. We still call things materials whether they are n\_\_\_\_\_ or manufactured. Some examples of natural materials are m\_\_\_\_\_, w\_\_\_\_\_ and clay. R\_\_\_\_\_ comes from a p\_\_\_\_\_, although it doesn't feel like something natural. Some examples of manufactured materials are n\_\_\_\_\_ and p\_\_\_\_\_. Remember that materials can be c\_\_\_\_\_ to give a new material. We should all make an effort to r\_\_\_\_\_ and re-use the world's natural materials.

*nylon*

*rubber*

*made*

*natural*

*metal*

*plant*

*recycle*

*combined*

*wood*

*plastic*

Name the materials used to make the following everyday items (some items may be made from more than one material).

*These words will help you:*

*rubber*

*metal*

*wood*

*plastic*

*glass*

*cotton*

*leather*



Chair



Sharpener



Pencil



Glasses



Balloons



Door handle



Keys



Saucepan



Book



Barbecue



Coat



Shoes

## Wednesday Maths

1 What does translate mean?

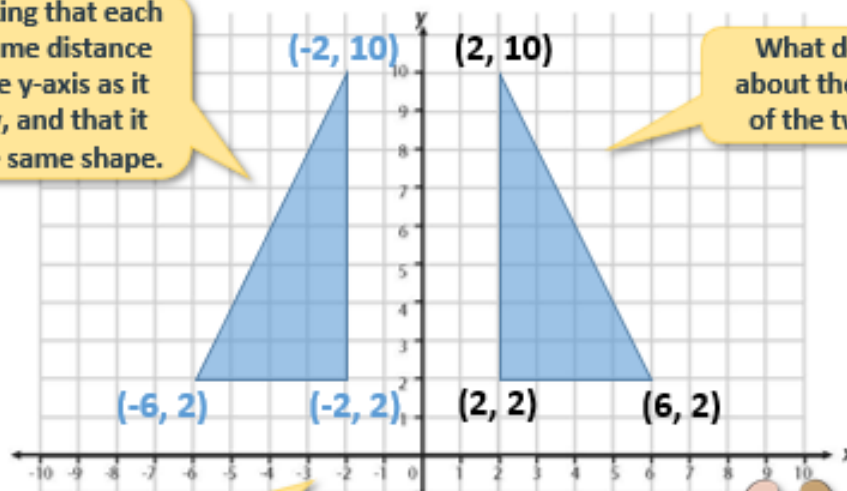
2 Coordinate (2,1) translates 4 squares to the right. What is its new position?

3 Coordinate (5,6) translates 1 square to the right and 1 square up. What is its new position?

4 How many sides does an octagon have?

Misconception: Lindsey is plotting this coordinate: (2,7). He says that for (2, 7), we go up 2, then along 7. Is he right?

I am just checking that each point is the same distance away from the y-axis as it was originally, and that it looks to be the same shape.

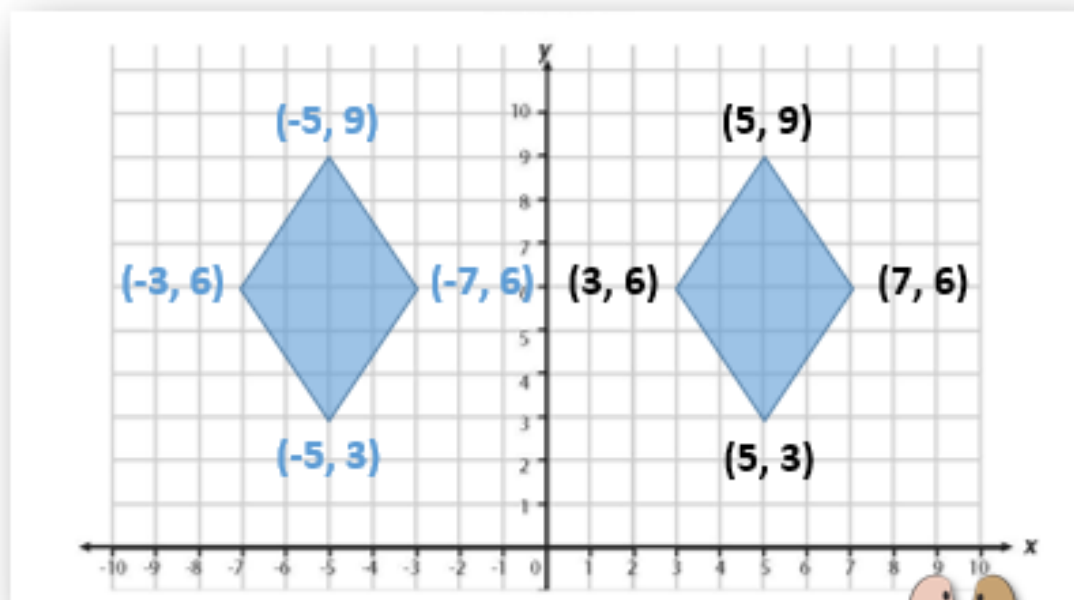


What do you notice about the co-ordinates of the two triangles?

Pretend that there is a mirror on the y-axis. We are going to reflect this triangle in the y-axis.

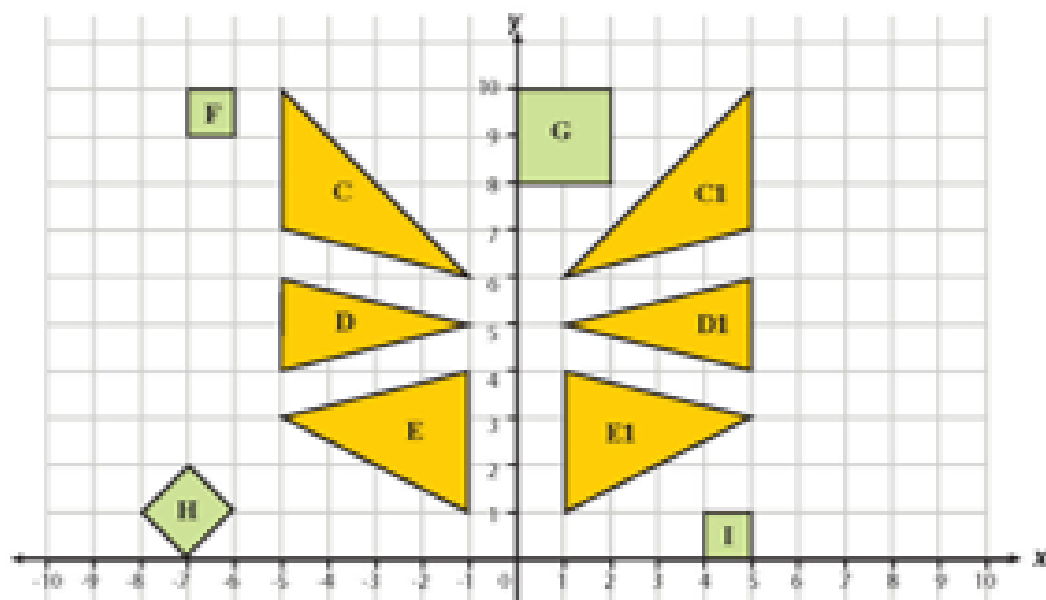
Work with a partner to write the co-ordinates of the vertices of the original triangle and then those of the reflected triangle.





We are going to reflect this rhombus in the y-axis.

Work with a partner to write the co-ordinates of the vertices of the original rhombus and then those of the reflected rhombus.



1. Look at triangles: C, D and E. They have been reflected across the y-axis to give triangles C1, D1 and E1. Mark the pairs of vertices (corners) which are reflections of each other. Use crosses, and a different colour for each pair. How many pairs should there be?
2. In the table, write the co-ordinates of the pairs of vertices you marked.

Colour of the two crosses	Vertex in shape on left	Vertex in shape on right
	( . )	( . )
	( . )	( . )
	( . )	( . )
	( . )	( . )
	( . )	( . )
	( . )	( . )
	( . )	( . )
	( . )	( . )
	( . )	( . )

What do you notice about each co-ordinate and its reflection?

3. Look at squares F, G, H and I. Can you predict the co-ordinates of their reflections across the y-axis?

## Wednesday English

Start to draft your letter to the queen.

You will need to include:

The address of the school

The address of Buckingham Palace

Dear Madam,

Opening paragraph - explaining who you are and the purpose of why you are writing to the Queen

2nd paragraph - Explain what has happened to Ahmet so far

3rd paragraph - Explain the news of the gates being shut. Explain how this will impact Ahmet and his family

4th paragraph - Tell the Queen it is her responsibility to act

5th paragraph - thank her for reading your letter and tell her that you look forward to her response

Yours sincerely,

...

Here is my example:

Hill West Primary School  
Clarence Road, Sutton Coldfield  
B74 4LD

Friday 4<sup>th</sup> February

Her Majesty the Queen  
Buckingham Palace Road, London  
SW1A 1AA

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Yours sincerely,

Mr A. Henrick

### **Openings**

- I would like to inform you that . . .
- It has come to my attention that . . .
- I am grateful to you for . . .
- I wish to . . .
- I wish to express . . .
- I would like to . . .
- Thank you for . . .
- It is with much pride that I can confirm that . . .
- It is with regret that . . .
- I am delighted to inform you that . . .
- I write to you because . . .

### **Useful expressions**

- Please accept my . . .
- I hope that . . .
- I trust that . . .
- It concerns me that . . .
- I wonder if you would be kind enough to . . .
- I would be grateful if . . .
- It would be helpful if . . .
- I wonder if . . .
- As I see it . . .
- I would rather not . . .
- I appreciate that . . .
- It is for this reason that . . .

### **Closing remarks**

- I look forward to hearing from you in due course
- An early response would be greatly appreciated
- I trust that this is all in order
- Thank you once again for . . .
- Please do not hesitate to contact me if I can be of any further assistance.

## Wednesday Art

Read about the Anglo-Saxon jewels, buckles and brooches. Look closely at the designs and design an Anglo-Saxon style piece of jewellery for the Queen to celebrate her Jubilee.

# The Alfred Jewel

The Alfred Jewel is made from enamel and quartz and surrounded by gold. It was made for Alfred the Great, who was the King of Wessex from AD 871 to AD 899.

It was designed to be on the top of a pointing stick used to point at words when reading a book. There is the figure of a man inside the teardrop shape and this is thought to be of Christ.

The Alfred Jewel is engraved with the phrase **aelfred mec heht gewyrca** which means **Alfred ordered me made**.



In 1939, an Anglo-Saxon burial site was discovered in Sutton Hoo, Suffolk. It consisted of a buried ship containing objects of incredible historical and archaeological importance.

This buckle, known as The Great Buckle, was part of the hoard. Its plate is hollow and has a hinge at the back. This reveals a secret chamber which might have contained a religious relic. The engraving is intricate and inlaid with niello.



The Anglo-Saxons created buckles, jewellery and purse fittings which were made from gold, silver and bronze. The metal was beaten and engraved, often with dots and dashes representing the fur of animals. Gemstones like garnet were inlaid into the metal. Niello was used to add letters and symbols to the engraved items.

Niello was a black paste made from copper, sulphur, silver and lead. It was added to the metal and then fired - heated to a very high temperature - to set the paste.



The Fuller Broch - 9<sup>th</sup> century Anglo-Saxon



## Wednesday Music

# The 1812 Overture

The overture is scored for a large symphony orchestra comprising piccolo, 2 flutes, 2 oboes, English horn, 2 clarinets (in B-flat), 2 bassoons + 4 horns (in F), 2 cornets (in B-flat), 2 trumpets (in E-flat), 3 trombones, tuba + 3 timpani, triangle, tambourine, side drum, cymbals, bass drum, bells, cannon + violins I, violins II, violas, cellos, and double basses.



Tchaikovsky noted in the manuscript score that "The bells should be large, and all of the same pitch; they should be struck in the manner of celebratory ringing", and that the cannon should be "The instrument used in theatres to depict a cannon shot" [\[2\]](#).

There is also an *ad lib.* part for military band in the coda.



"The bells should be large, and all of the same pitch; they should be struck in the manner of celebratory ringing "

1. What does pitch mean?
2. What does Tchaikovsky mean when he says, 'the bells should be large'?
3. 'Celebratory ringing' What does this mean?

Dynamics - variation in loudness between notes or phrases

Abbreviation	Full word (Italian)	Definition
<i>pp</i>	Pianissimo	Very soft
<i>p</i>	Piano	Soft
<i>mp</i>	Mezzo-piano	Medium soft
<i>mf</i>	Mezzo -forte	Medium Loud
<i>f</i>	Forte	Loud
<i>ff</i>	Fortissimo	Very Loud
	Crescendo	Gradually Louder
	Decrescendo	Gradually Softer

Listen again to the [1812 Overture](#).

1. Watch the conductor carefully; what does he do to change the dynamics in the music?
2. How do the dynamics affect the mood of the music?
3. As the music is playing, draw a picture or image that you would associate with this piece of music? Is it:
  - Happy
  - Sad
  - Exciting
  - Angry

### Thursday Maths

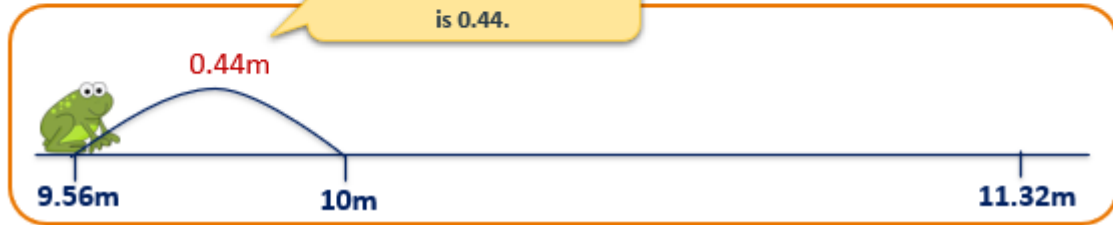
<b>1</b>	Write the operation that corresponds to the following vocabulary:  Difference, take away, less than	<b>2</b>	Solve:  $2.85 - 1.56 =$
<b>3</b>	How many tenths are in the following number:  2.95	<b>4</b>	How many hundredths make 1 whole?

Misconception: Christine was calculating  $4.78 - 2.39$ . She got an answer of 2.41. Is she correct?

Harry's best javelin throw at sports day last summer was 9.56 metres, but today he has thrown a huge 11.32 metres! How much further has he thrown?

? How could we work it out?

We are adding 44cm, but we write this as metres so it is 0.44.



Some botanists have been monitoring tree growth for a year. How much has each tree grown since last year?

Tree	Height last year	Height today	Growth
Oak	6.72m	8.93m	
Beech	9.06m	11.53m	
Scots Pine	17.81m	19.06m	
Cypress	14.22m	15.11m	
Lime	20.87m	21.13m	
Maple	14.2m	15.01m	

## Thursday English

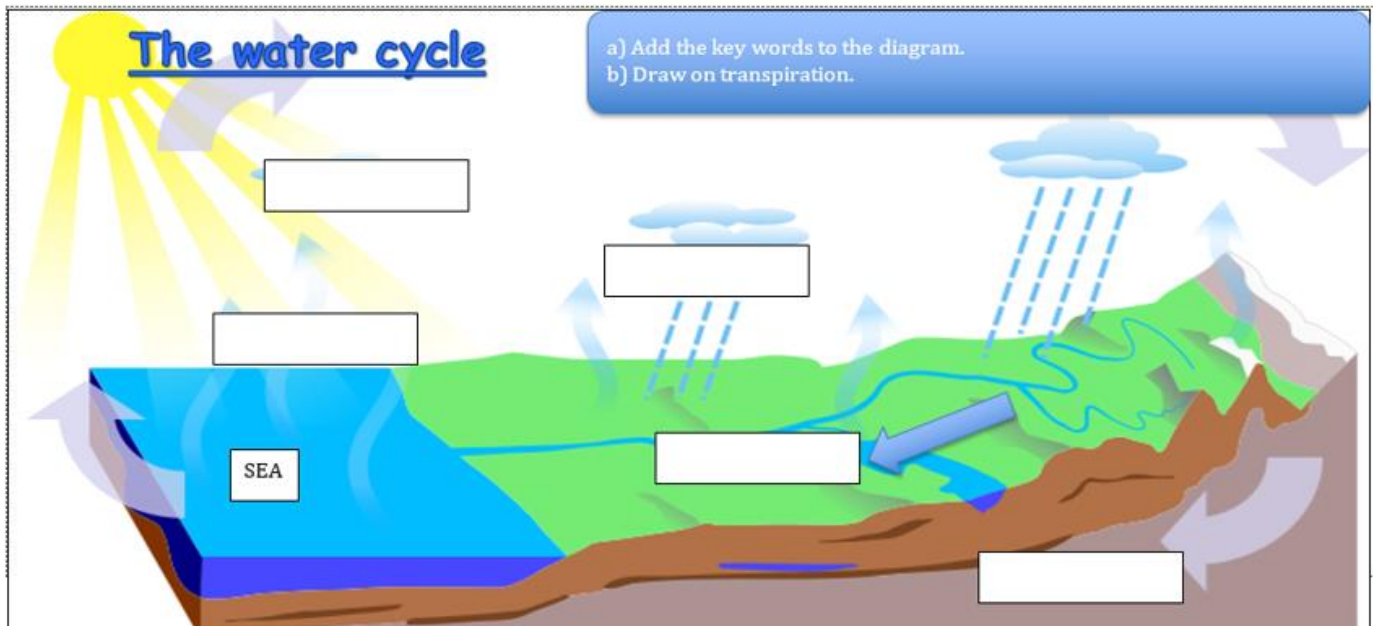
Write your letter to the Queen - when editing it, check for the following:

**Edit - in purple pen**

**Think:**

- Spellings
- Capital letters and full stops
- Can you up-level any vocabulary
- Does it explain what has happened to Ahmet
- Read it to yourself. If you were the Queen, would it persuade you to help?
- What could you do to improve?

## Label this diagram



Precipitation		When water vapour cools and turns into clouds
Condensation		Rain, hail, sleet and snow that falls from the clouds
Evaporation		When the sun heats up water from the leaves of trees.
Groundwater flow		When the water runs off the surface of the ground.
Surface run-off		When water flows through the rocks and soil underground.
Transpiration		When the sun heats up water from the sea and it goes into the air.

1. Create a 3D model of the water cycle.
2. Use sugar paper, tissue paper and scrap paper to demonstrate each step in the cycle.
3. Each step MUST be labelled.

## Thursday PDW

Read through the information on the webpage and watch the video:

<https://www.bbc.co.uk/bitesize/topics/zxsbcdm/articles/zs3gcdm>

Re-arrange the phrases so the sentences make sense and write them correctly.

in England, led by Augustine    a group of monks arrived    in 596,

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which means they believed in many Gods    Anglo-Saxons were polytheistic

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after Norse Gods    of the week are named    many of our days

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his wife Bertha and Augustine    to convert to Christianity by  
King Aethelbert was convinced

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An important pagan festival    around the winter solstice  
took place on 25<sup>th</sup> September,

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