

W/B 8th June.

Hello! Year 5. Please see below the Home learning for this week. Thanks! Mrs Hudson, Mrs Waters and Mrs Ferreira.

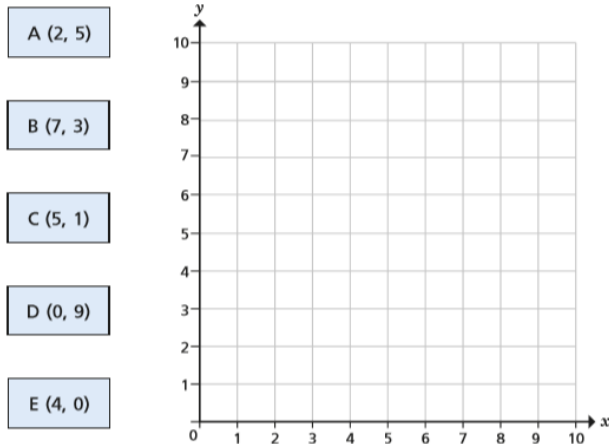
Our topic is Fairgrounds. Pupils will gain an understanding of the importance of forces and how these affect objects, mechanisms and the world around them, including themselves. A force is a push, pull or twist. They will look at different types of forces including gravity, air resistance, water resistance, surface resistance and magnetic forces. Gravity is the pulling force acting between the Earth and a falling object, for example when you drop something. Please encourage your child to use the scientific vocabulary, at the bottom of the plans, in discussions and their writing.

Monday

Maths

We will be focussing on co-ordinates and reflection.
Remember – along the corridor first and up the stairs second.

Plot the points on the coordinate grid.



You can draw the grid out if it helps. Think of your own rhyme to help remember how to work out co-ordinates.

English

This week in English we will be focusing on stand alone, imaginative written tasks.

If you would like to do any additional English learning, you can find a new activity each day here:

<https://www.pobble365.com/>

Spelling:

Continue to play games on Spelling Frame.

You could focus on these Y5/6 statutory spelling words this week:

accommodate
accompany
equip (-ped, -ment)
especially
programme
pronunciation

Science

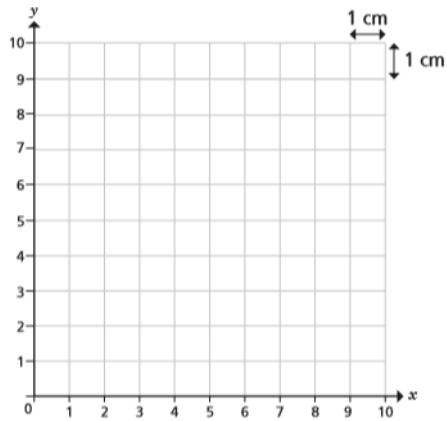
Copy and complete the following paragraph using the words below.

Forces are _____ and pulls. Forces can act in different _____. On diagrams we can show the direction that a force is acting in by using _____. A bigger arrow shows a _____ force. A _____ arrow shows a smaller force. When a force is balanced the object will stay _____. When the forces are _____ the object will move in some way, this may mean it speeds up, slows down or changes direction.

smaller pushes unbalanced

directions bigger arrows still

A coordinate grid has been drawn on a page of centimetre squares.



- a) The coordinates of three vertices of a rectangle are (0, 3), (7, 3) and (7, 0).

What are the coordinates of the fourth vertex? (,)

- b) Work out the area and perimeter of the rectangle.

area = cm² perimeter = cm

Reading

Show an enjoyment for reading by reading a book of your choice. Aim to read for at least 10 minutes per day. You could always use your Reading Record to record what you have read.

English Task: Odd Object

A black cup is floating in space.

What is it doing there?

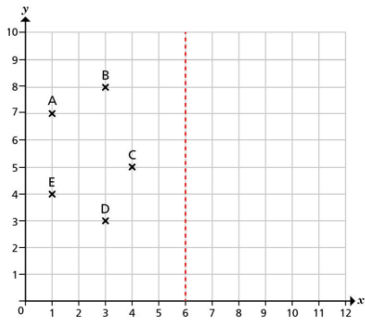
If it could talk to you, what would it say?

What will happen to it next?

Write a couple of paragraphs about the odd object. Focus on sentence punctuation, spelling and making sure your sentences make sense. Use a coloured pen to edit once you have finished.

Wednesday

5 Five points are plotted on a coordinate grid.



- a) Join the points to form a polygon. This is the object.
What type of polygon is the object? _____
- b) Reflect the object in the given mirror line.
What type of polygon is the image? _____

c) Label the reflected vertices P, Q, R, S and T.

Write the new coordinates.

P (,) Q (,) R (,)
S (,) T (,)

d) The image and the object are identical polygons.

Is this statement true or false? _____

The Journey

On a very windy day, a family goes on a journey by tractor. They are going to a firework display.

Write about the journey. What interesting or unusual things happen along the way? Try to include prepositional phrases e.g. In the distance..., Underneath the wheels...

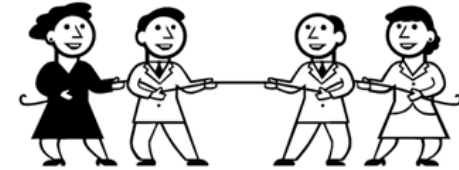
Where does the force come from when you kick a football?

Draw a diagram, using arrows, to show the direction of forces when you kick a football.

Where does the force come from when you push open a door?

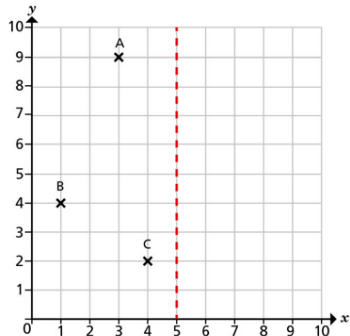
Draw a diagram, using arrows, to show the direction of forces when you push open a door.

These two tug of war teams are both pulling on the rope. Neither team wins. Explain why. Try to use the following words in your answer: force, pull, balanced, unbalanced.



Thursday

1 Three points, A, B and C, are shown on the coordinate grid.



- a) Write the coordinates of point A. (,)
- Reflect point A in the mirror line.
Label this new point D.
Write the coordinates of point D. (,)

Make Up a Sentence

sparkling
wizard
cried

Write different sentences using all three words. It's ok if your sentence sounds a bit odd – it's meant to! Try to extend your sentences by adding in relative clauses, parenthesis, similes, adverbs etc

Create a cross word using the forces vocabulary listed on the last page. Remember to include the answers.

- b) Write the coordinates of point B.
 Reflect point B in the mirror line.
 Label this new point E.
 Write the coordinates of point E.

(,)

(,)

- c) Write the coordinates of point C.
 Reflect point C in the mirror line.
 Label this new point F.
 Write the coordinates of point F.
 What do you notice? Talk about it with a partner.

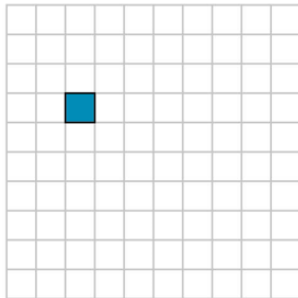
(,)

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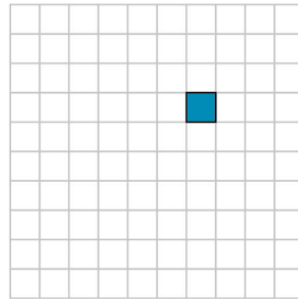
Friday

Complete the translations.

- a) Translate the shape
 4 squares to the right.



- b) Translate the shape
 2 squares up.



Create a Character

A sneaky girl who is good at making paper aeroplanes. She lives up a hill and has three sisters.

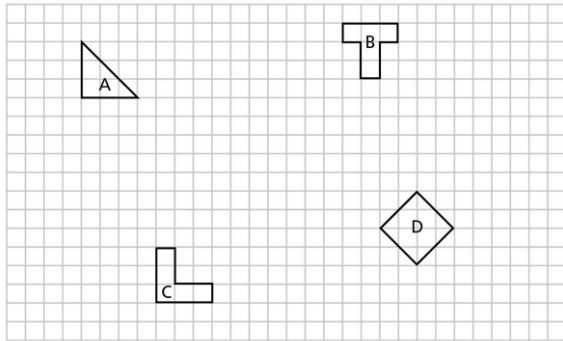
Write a character description for the girl. Invent extra details. Think about how to organise your description into paragraphs.

Forces- pushing and pulling Squashing, bending, twisting and stretching can change the shape of objects. Will these things permanently change, not change or regain their original shape? Create and complete a table in your book.

Materials	Predict- what do you think will happen?	Results- what did happen?
Bag of sand		
Sponge		
Cotton reel		
Elastic band		

Other materials?

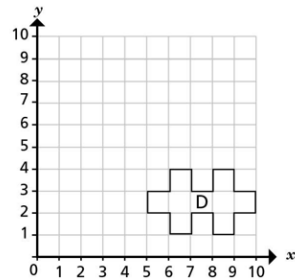
Four shapes have been drawn on a grid.



- a) Translate shape A 5 squares to the right and 3 squares down.
- b) Translate shape B 4 squares to the left and 7 squares down.
- c) Translate shape C 6 squares to the left.
- d) Translate shape D 4 squares to the right and 8 squares up.

A shape has been drawn on a coordinate grid.

- a) Translate shape D 4 squares to the left and 6 squares up. Label the new shape E.



- b) Describe the translation from shape E to shape D.

What do you notice? Does this always happen?

If you want to do more Maths – have a look at this website – **Top Marks**

Website: <https://www.topmarks.co.uk/maths-games>

Key stages: early years foundation stage to key stage 3

Description: a range of interactive maths games categorised by age group, suitable for parents and students to work through.

Registration: not required

Maths Answers: Monday:

Plot the points on the coordinate grid.

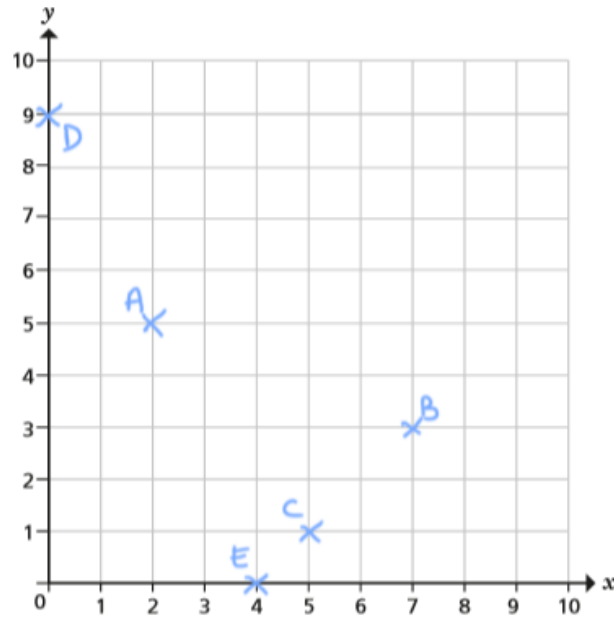
A (2, 5)

B (7, 3)

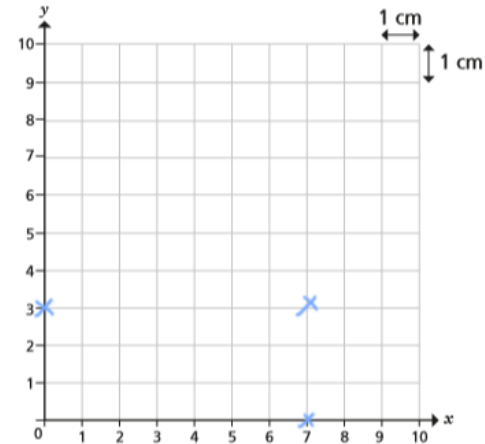
C (5, 1)

D (0, 9)

E (4, 0)



A coordinate grid has been drawn on a page of centimetre squares.



a) The coordinates of three vertices of a rectangle are (0, 3), (7, 3) and (7, 0).

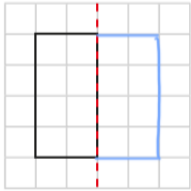
What are the coordinates of the fourth vertex? (,)

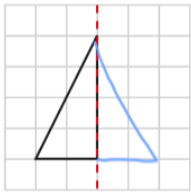
b) Work out the area and perimeter of the rectangle.

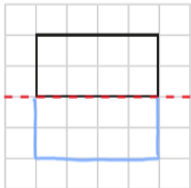
area = cm² perimeter = cm

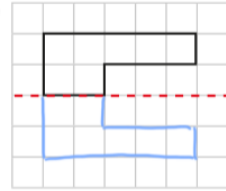
Tuesday

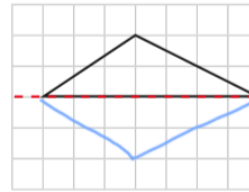
Reflect each shape in the mirror line.

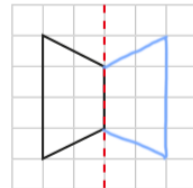
a) 

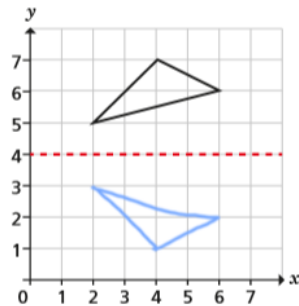
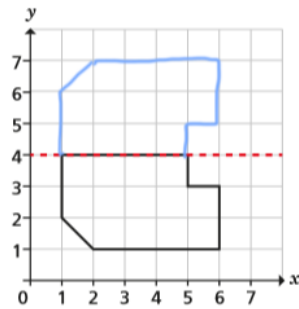
b) 

c) 

d) 

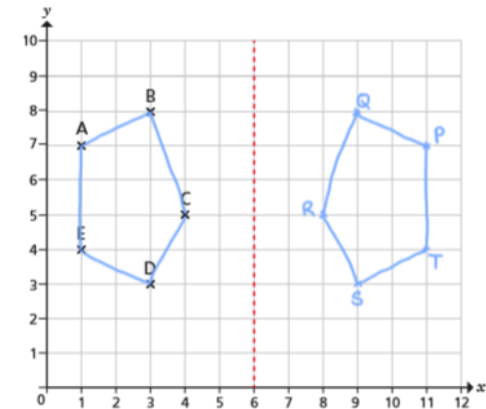
e) 

f) 



Wednesday

Five points are plotted on a coordinate grid.



a) Join the points to form a polygon. This is the object.

What type of polygon is the object? pentagon

b) Reflect the object in the given mirror line.

What type of polygon is the image? pentagon

c) Label the reflected vertices P, Q, R, S and T.

Write the new coordinates.

P (11 , 7) Q (9 , 8) R (8 , 5)

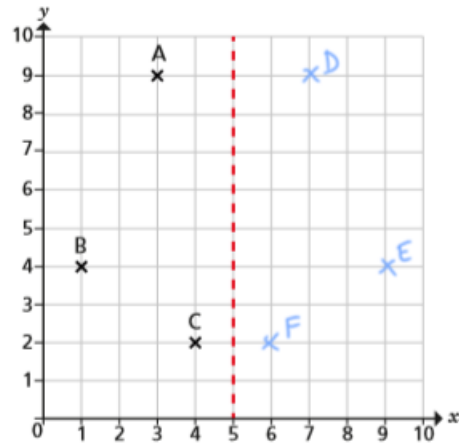
S (9 , 3) T (11 , 4)

d) The image and the object are identical polygons.

Is this statement true or false? True

Thursday

Three points, A, B and C, are shown on the coordinate grid.

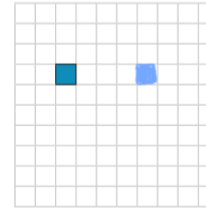


- a) Write the coordinates of point A. 3, 9
Reflect point A in the mirror line.
Label this new point D.
Write the coordinates of point D. 7, 9
- b) Write the coordinates of point B. 1, 4
Reflect point B in the mirror line.
Label this new point E.
Write the coordinates of point E. 9, 4
- c) Write the coordinates of point C. 4, 2
Reflect point C in the mirror line.
Label this new point F.
Write the coordinates of point F. 6, 2

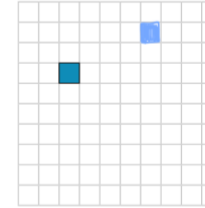
Friday

Complete the translations.

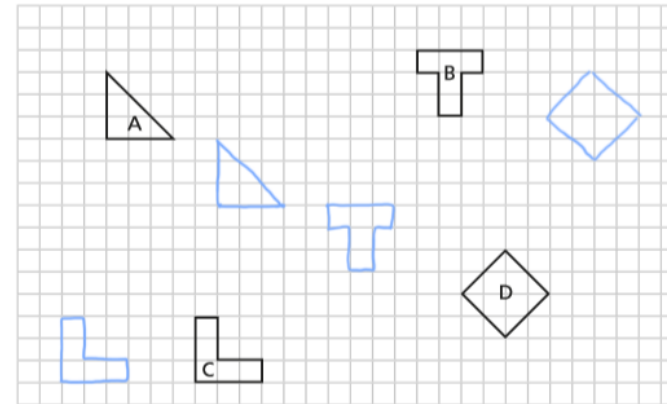
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4 squares to the right.



- c) Translate the shape
4 squares right, 2 squares up.



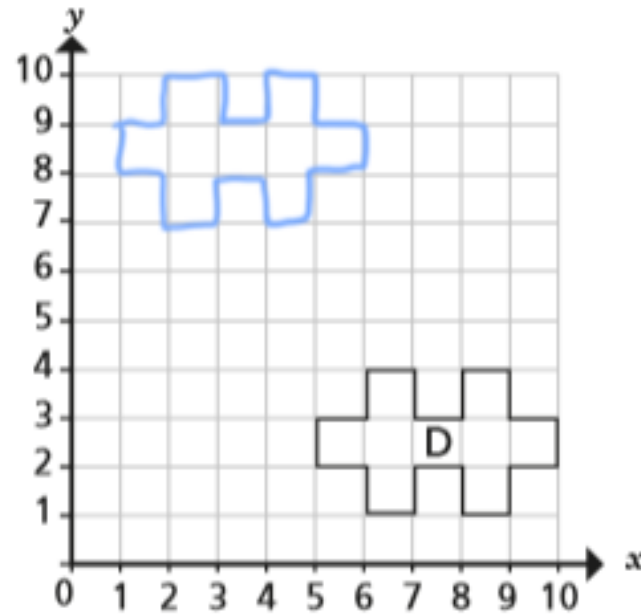
Four shapes have been drawn on a grid.



- a) Translate shape A 5 squares to the right and 3 squares down.
b) Translate shape B 4 squares to the left and 7 squares down.
c) Translate shape C 6 squares to the left.
d) Translate shape D 4 squares to the right and 8 squares up.

Friday Cont.

A shape has been drawn on a coordinate grid.



a) Translate shape D 4 squares to the left and 6 squares up. Label the new shape E.

b) Describe the translation from shape E to shape D.

4 squares to the right and 6 squares down.

What do you notice? Does this always happen?