



HOME LEARNING

YEAR 6

29/04/2020

Morning Message

Good morning year 6,

We thought we would share some trivia facts with you today so that you can casually slip them into conversation around the dinner table and impress your family with how knowledgeable and clever you are.

People have a fear of lots of strange things. The fear of the number 13 is called *triskaidekaphobia*. The next time someone says to be worried because it is Friday 13th say, "Oh don't be so triskaidekaphobic – it's so irrational!"

There are more trees over the age of 500 years in Richmond Park alone, compared to the whole of France and Germany combined!

The hashtag symbol # is technically called an *octothorpe*. *Octo* means 8 and *thorpe* means village. One theory is that the symbol was used during the middle ages to represent a village surrounded by 8 fields.

The answer to yesterday's riddle is *the moon*. Today's riddle: *What belongs to you but is mostly used by others?*

Mr Larke and Ms. Yerlisu

Today's Picture



Writing

Two characters are in a car speeding along the straight road. They are on a mission to reach the top of the mountain in front of them. It is up to you to decide who they are and why they need to reach the top.

Your task is to write some dialogue between the two as they make the ascent.

It might start something like this:

Asha turned to look at the person in the car beside her. She noticed her partner was gripping the wheel so hard his fingers were turning white. "You're starting to look worried Tom. Try to stay calm"

"That's easy for you say. I can't let this man escape again. Not again"

Chief Inspector Asha Khan and her sergeant Tom Bradbury had been on the trail of the bank robber Alfie Kane for 6 months now. They had intelligence a helicopter was waiting to help him escape from the top of River Mountain.

"The weather's closing in. We need to get up there before the clouds make it impossible to see." The car screeched to a halt and the two police officers jumped out. "Follow me, sergeant!"

Use the above as inspiration if you need it. Or use your own ideas.

Tips for success:

- ensure you use a combination of dialogue and descriptive passages to move the scene forward
- punctuate all speech correctly
- vary sentence lengths for effect

Reading

Day 3: Teacher-led questions. Write answers in full sentences.

1. On page 1 are descriptions of the Land of the Dolls and The Land of the Rats.
 - a) List all the vocabulary/phrases about the Land of the Dolls that are positive and uplifting.
 - b) List all the vocabulary/phrases about the Land of the Rats that are negative and depressing.
2. What is Karolina's job? (page 2)
3. Why did the dolls who were sad want to return to the human world? (page 2)
4. Why did the dolls travel from the human world to the Land of the Dolls in the first place? (page 2)
5. Look at the paragraph beginning *One day...* Which words/phrases tell us that Karolina was injured by the rats' attack? (page 2)

Maths

In this lesson, you will solve problems using coordinates in all four quadrants. You will apply your knowledge of the properties of shapes to reason about the coordinates of an unlabelled or unknown vertex, including following a translation or reflection. You will also find half-way points, using the structure of the grid.

Tips

- You need to plot or identify coordinates in all four quadrants? (2, -3) First number on x axis and second number on y axis
- Understand what is the same and what is different about a shape after reflection and translation. Reflection is a flip over a mirror line or reflection line. Translation is without rotating, resizing or anything else, just moving.



Power Up

Solve these calculations using a written division method.

$339 \div 15 = \square$

$285 \div 12 = \square$

$764 \div 16 = \square$

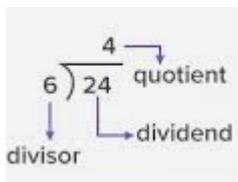
$570 \div 24 = \square$

$312 \div 15 = \square$

$782 \div 25 = \square$

Tip

Use a long division method or factors of the divisor. Remember all the divisors have factors. All the answers are in decimals.



$339 \div 15 =$ Factors of the divisor are 3 x 5 and 1 x 15 so I pick 3 and 5

$339 \div 3 = 113$ $113 \div 5 = 22.6$ is the answer

or

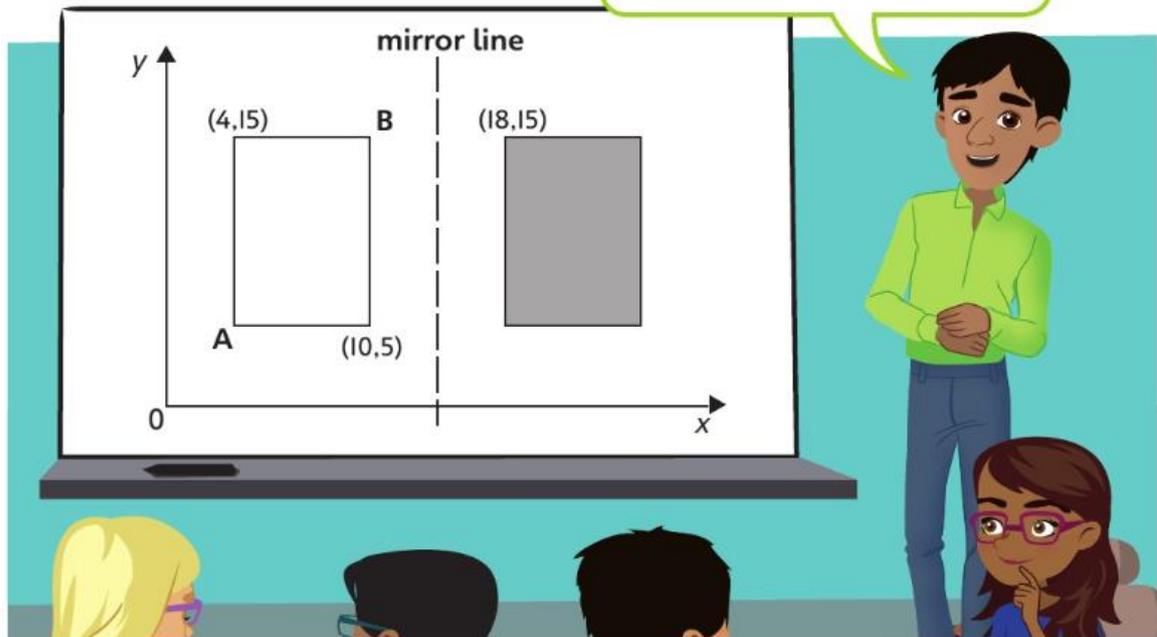
$159 \div 12 =$ Factors of 12 are 1 x 12, 3 x 4, 2 x 6 I pick 3 and 4

$159 \div 3 = 53$ $53 \div 4 = 13.25$

Problem solving – position and direction

Discover

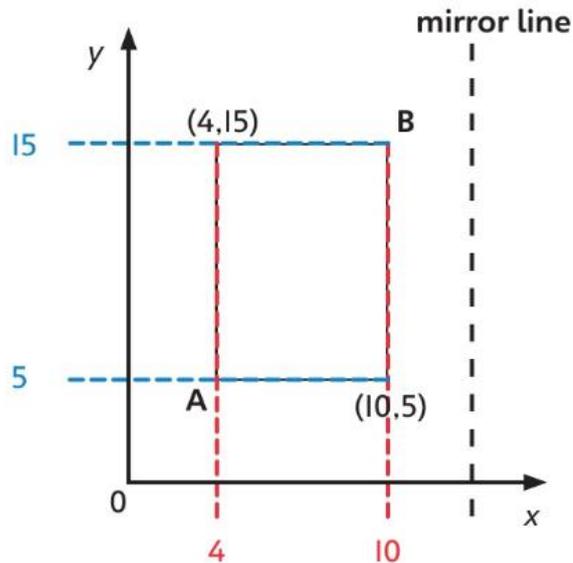
What are the coordinates of vertices A and B?



- 1** a) Give the coordinates of vertices A and B.
- b) The rectangle is reflected in a mirror line. One vertex is at $(18, 15)$.
What are the coordinates of the other three vertices?

Share

a) The coordinates of two vertices are $(4,15)$ and $(10,5)$.

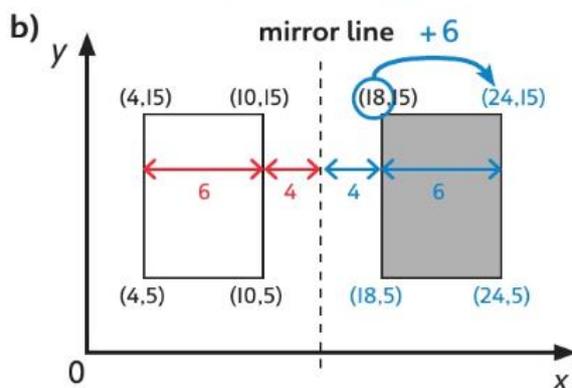


I can use what I know about the structure of the coordinate grid.



Vertex A is $(4,5)$.

Vertex B is $(10,15)$.



Each rectangle is 6 units wide.

From $(10,15)$ to $(18,15)$ there is a distance of 8 units. Each rectangle must be 4 units from the mirror line.

The coordinates of the reflected vertex B are $(18,15)$. Add 6 to the x-coordinate to locate another vertex at $(24,15)$.

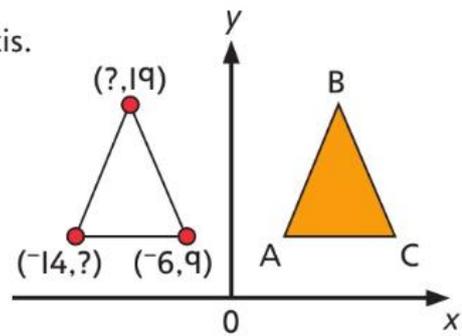
I know that a reflected shape is the same size as the original shape.

Work out the other reflected vertices in the same way. They are $(18,5)$ and $(24,5)$.



Think together

- 1 An isosceles triangle is reflected in the y -axis.



- a) One of the vertices of the original triangle is $(-6, 9)$.

What are the coordinates of the other two vertices?

The other two vertices are $(-14, \square)$ and $(\square, 19)$.

- b) What are the coordinates of the reflected triangle, ABC?

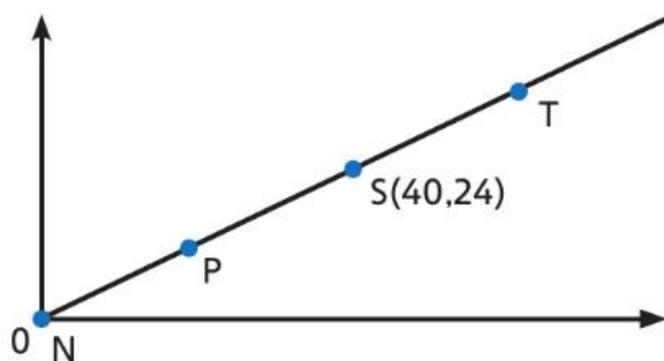
A (\square, \square)

B (\square, \square)

C (\square, \square)

- 2 Points N, P, S and T are an equal distance from each other.

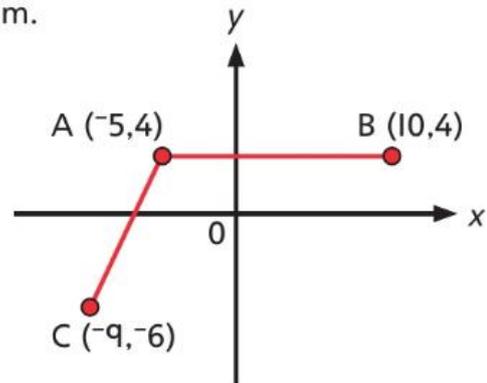
What are the coordinates of points P and T?



P (\square, \square)

T (\square, \square)

3 Jamie draws two sides of a parallelogram.



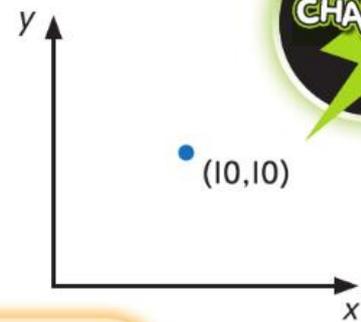
- a) Where should she plot the fourth vertex, D, to complete the parallelogram?
- b) The shape is translated 5 units right and 4 units up.

What are the new coordinates of vertex C?

4 The length of a side of a square is 5 units.
The coordinates of one vertex are (10,10).

- a) What are the possible coordinates of the other three vertices?

Find at least two different solutions.



I think there are four possible squares so I need to think about all of them.

- b) The coordinates (8,12) will be inside only one of the squares.



Max

Explain why Max is correct.

Weekly Spellings

This week we will be learning/revising the final 25 words from the spelling list. Learn from *queue* to *yacht*.

Word list – years 5 and 6

accommodate	embarrass	persuade
accompany	environment	physical
according	equip (-ped, -ment)	prejudice
achieve	especially	privilege
aggressive	exaggerate	profession
amateur	excellent	programme
ancient	existence	pronunciation
apparent	explanation	queue
appreciate	familiar	recognise
attached	foreign	recommend
available	forty	relevant
average	frequently	restaurant
awkward	government	rhyme
bargain	guarantee	rhythm
bruise	harass	sacrifice
category	hindrance	secretary
cemetery	identity	shoulder
committee	immediate(ly)	signature
communicate	individual	sincere(ly)
community	interfere	soldier
competition	interrupt	stomach
conscience*	language	sufficient
conscious*	leisure	suggest
controversy	lightning	symbol
convenience	marvellous	system
correspond	mischievous	temperature
criticise (critic + ise)	muscle	thorough
curiosity	necessary	twelfth
definite	neighbour	variety
desperate	nuisance	vegetable
determined	occupy	vehicle
develop	occur	yacht
dictionary	opportunity	
disastrous	parliament	

Foundation Topic Work (for the week)

This term we will be learning about electricity in science. Obviously we have not had a chance to learn anything in class, so you will need to do some research at home in order to complete this. Your job is to complete a leaflet on electrical safety at home. You might want to include sections on:

- how electricity works
- why it is useful
- why it is dangerous
- how to keep safe when using it at home

Include pictures and text. Make sure you use the whole leaflet. If you click on the small arrows at the bottom in the corner then it will unfold the pages and give you much more space to write. Remember to hand it in when you want your teacher to look at it. By Friday please.

Diary

Write a diary of what work and activities you did today. Remember to include your thoughts, feelings and opinions.