#### Year 6 - Home Learning Project - Week 11 - 29/06/2020: Perilous Peaks

#### Daily activities:

English worksheet
and tasks
Look at 'The
House in The
Rainforest' and
complete the
tasks below.

# Maths Complete the White Rose Maths tasks at the end of this document - 1 per day. Ensure you watch the video before you complete the task.

#### **Reading Plus**

Log into <u>Reading Plus</u> and complete your weekly reading comprehension tasks and vocabulary tasks. Site code: rpendea2

#### TTRS and Numbots

Working on Times Table Rockstars
- Can you complete all the set
games and challenge somebody in
our school? Are you winning in the
current Battle of the Bands?

#### PE session

Join Joe Wickes live every Mon, Weds and Fri morning @ 9:00am or access it any time throughout the day.

# A Topic activity from the choices below

Try to complete all of the tasks and send your work to your teacher.

This week's themed learning is based around our new topic of Perilous Peaks.

#### Geography: Do mountains all stay the same?



What shape is a mountain?

Every mountain is a different shape due to a variety of reasons. Mountain Matterhorn (see image above) was formed by a glacier movement scouring around what became the peak.

Research the different reasons mountains are different shapes. Make notes on each of the causes below:

- Erosion
- Glaciers
- Weather and temperature

Give examples of Mountains where the reasons above have caused it to change its shape.

#### Art: Landscape - Post Impressionism

Last week we introduced ourselves to Post Impressionism Art. Over the coming weeks we are looking to create a piece of post impressionism of a chosen mountain landscape.

To develop our understanding of the type of art, we are going to look at two different pieces and compare them. Look closely at what you think is similar between the artwork and what is different

# Music: In the Hall of the Mountain King



We hope you've been enjoying listening to Greig's composition the last couple of weeks.

Listen again to the piece of music on <u>BBC ten</u> <u>pieces website</u> and hear the story it tells with the music. Underneath, the story has been told with the aid of a story map however it has been mixed up. Can you put the story in the correct order?

Why not create your own original piece of art while listening to "In the Hall of the Mountain King?" You could try it with chalk, crayons, mixed media. The list is endless. We'd love to see your pictures.

Complete the **COMPARE-it sheet** below. Consider the colour, shape, line, texture and emotion.

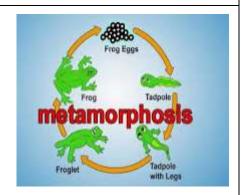


#### Science: Metamorphosis

Metamorphosis is a process by which animals undergo an abrupt and obvious change in the structure of their body and their behaviour.

Some animals undergo complete metamorphosis, in which they completely transform. Other animals experience incomplete metamorphosis, where they go through several different stages, with each stage getting bigger than the last.

Amphibians and insects are examples of animals that undergo metamorphosis. Their life cycles show the stages of their transformations.



<u>Task 1:</u> Watch the incredible changes during metamorphosis on this <u>BBC video</u>. Can you pause the video after the metamorphosis of the tadpole and explain the process in your own words to someone else? You may need to watch the clip a few times.

<u>Task 2:</u> You will find the stages below of metamorphosis for a frog and a butterfly however they are mixed up. Can you put them in the correct order?

<u>Task 3:</u> Using your knowledge of metamorphosis can you complete the information sheets below to describe the changes to the frog and the butterfly?

#### Computing:

Personify something Take a photo of an everyday object at home or outside, and draw on it using and editing tool for example Markup to transform it into a character.

Spanish: Festivals



Spain is home to many wonderful festivals and one of the most famous is the festival of San Juan celebrated all over Spain on the  $23^{rd}$  and  $24^{th}$  of June. One of the most notable traditions is the bonfire festivals that dot the beaches. Read more about this fascinating festival here.

Then, imagine that you were at one of the bonfires whilst on your holiday in Spain. Write a postcard home to describe what you saw and experienced. Don't forget to include some of the superstitions and ideas behind the festival.

# <u>English Grammar: Active or Passive Voice?</u>

A sentence is written in active voice when the <u>subject</u> of the sentence is performing the action.

A sentence is written in passive voice when the subject of the sentence has something done to it by someone or something. The cat was chasing the mouse.



The mouse was being chased by the cat.

#### For Example:

Active voice: The cat was chasing the mouse.

In this sentence, 'the cat' is the subject, 'was chasing' is the <u>verb</u> and 'the mouse' is the <u>object</u>.

Passive voice: The mouse was being chased by the cat.

In this sentence 'the mouse' has become the subject which is having something done to it by the cat.

Watch the cartoon <u>video link here</u> and complete the active and passive voice sentences below.

#### Sticky Knowledge (remembering our previous learning):



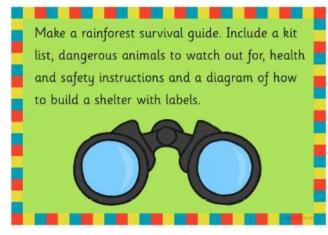
# <u>History: Democracy in Ancient</u> Greece

During our lessons on Ancient Greece we found out that our ideas of modern day democracy began with the Greeks. Watch

this video to recap on how democracy worked for the Ancient Greeks. What are the similarities between the Greek system and democracy in the UK today? What are the differences? Underneath, you will find a list of statements, can you sort them in to the correct democratic system?

#### Geography: Rainforests

Can you create a survival booklet for someone in the Amazon Rainforest? Take a look at top tips for survival, how to build a secure shelter and find out about the most dangerous animals to avoid. You could present your information as a power point or a booklet.





#### Science: Adaptation

What is adaptation? What is inheritance? Watch the links to recap on what both scientific terms mean.

Think about the Fennec fox and the Arctic fox, both in the same animal family but very different. How has each animal adapted to their environment?

Research the two animals here Fennec Fox Arctic Fox

Then explain where in the world you find each type of fox and give three clear examples explaining how each type of fox has adapted to its surroundings.



#### Website links mentioned above:

 $\frac{\text{https://www.bbc.co.uk/teach/ten-pieces/KS2-edvard-grieg-in-the-hall-of-the-mountain-king-from-peer-gynt/z7nf3k7}{\text{the Mountain King}} - In the Hall of the Mountain King}$ 

 $\frac{\text{https://www.bbc.co.uk/teach/class-clips-video/science-ks2--ks3-the-life-cycles-of-different-organisms/zvh8qp3}{\text{Metamorphosis}} - Science + \frac{1}{2} - \frac{1}{2} -$ 

https://www.barcelo.com/pinandtravel/en/san-juan-spain-festivals-in-spain/ - Spanish festival of San Juan https://www.youtube.com/watch?v=-K\_eKC76jn4&feature=youtu.be - English Grammar active and passive voice https://www.youtube.com/watch?v=OfivQUIC7-8 - Sticky knowledge History - Democracy in Ancient Greece https://www.youtube.com/watch?v=UI3wHcF-IQI - Sticky knowledge Geography - Ray Mears how to build a shelter https://traveltips.usatoday.com/survive-amazon-rainforest-12654.html - Sticky knowledge Geography - Rainforest survival tips http://www.walkthroughindia.com/wild-world/top-15-dangerous-animals-amazon-rainforest/ - Sticky knowledge Geography - Dangerous animals in the rainforest

https://www.bbc.co.uk/bitesize/topics/zvhhvcw/articles/zxg7y4j - Sticky Knowledge Science - BBC adaptation <a href="https://www.bbc.co.uk/bitesize/topics/zvhhvcw/articles/zp9f4qt">https://www.bbc.co.uk/bitesize/topics/zvhhvcw/articles/zp9f4qt</a> - Sticky Knowledge Science - BBC inheritance <a href="https://www.nationalgeographic.com/animals/mammals/f/fennec-fox/">https://www.nationalgeographic.com/animals/mammals/a/arctic-fox/</a> - Sticky Knowledge Science - Arctic Fox

# **COMPARE-it**

This is:

What do you notice that is similar?

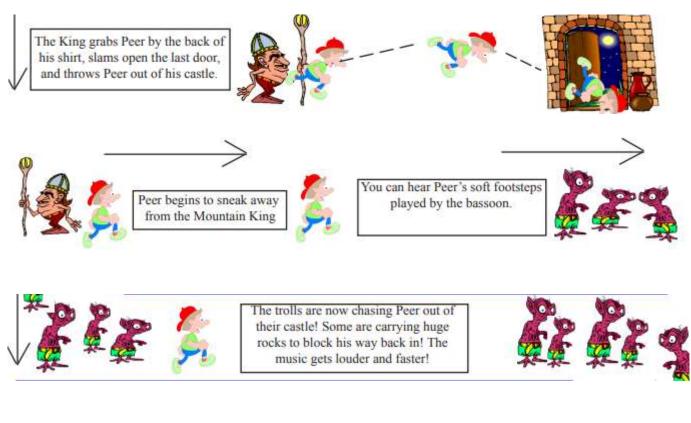
This is:

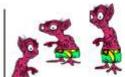


Jon Thorleifsson – Icelandic Mountain Landscape What do you notice that is different?

Vincent Van Gogh – Les Alpilles Mountain Landscape

# Music: In the Hall of the Mountain King Can you listen to the music and put the story map in the correct order?





The chase gets faster and louder. More trolls join in.



The trolls begin to follow softly. You can hear different instruments join into the slow chase.



Peer runs into the Mountain King! He is very angry. Peer sees two doors and tries to open them - LOCKED! He runs around to find two more doors - LOCKED!





## Spanish festivals: Postcard home from the San Juan festival

#### Science: Metamorphosis

#### Frog Life cycle - can you put the stages in the correct order?

The tadpole develops lungs and hind legs.

After 2-25 days the tadpoles hatch from the eggs.

The female lays a mass of eggs that are fertilised by the male.



The tadpole grows front legs and its tail shortens. The froglet jumps out of the water onto land.



The tail disappears completely and the froglet starts to eat insects. In 2-4 years it will become an adult and will reproduce.



The tadpole swims and eats plants. It breathes through gills.



Fertilised eggs are laid by the female. Inside the caterpillar



Inside the chrysalis, the caterpillar transforms into a butterfly.



The adult butterfly breaks out of the chrysalis and reproduces.



The eggs hatch into larvae called caterpillars. The caterpillar eats leaves and grows bigger.

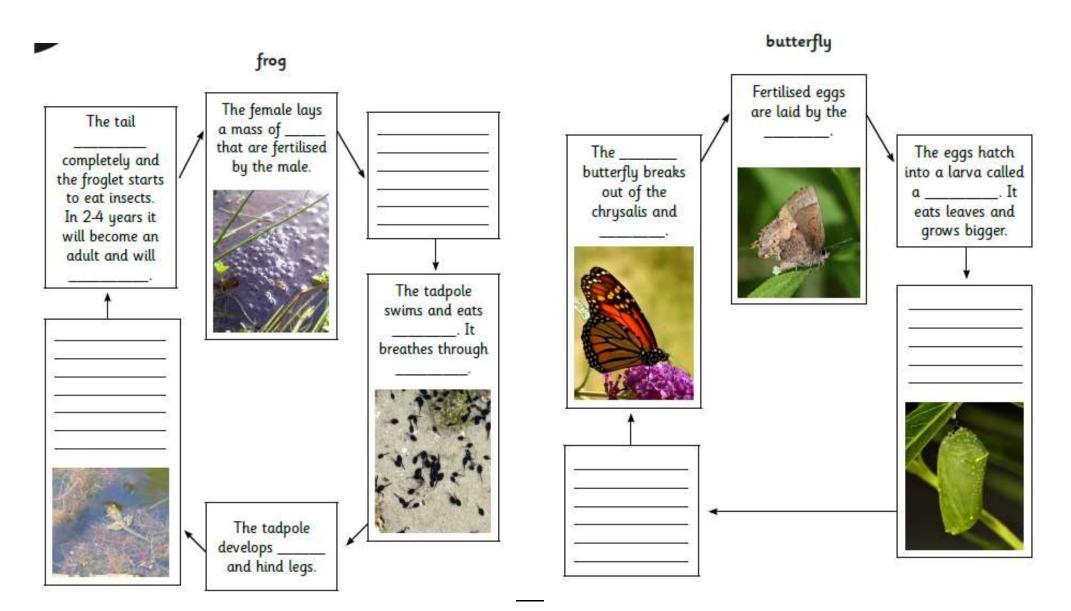


The caterpillar forms a hard case around itself called a chrysalis.





#### Science: Metamorphosis Task 3



#### English Grammar: Active and Passive voice task

- Watch the video <u>here</u>
- Read the description of each clip.
- Change the description from the active voice into the passive voice.
  - o Active: The dog <u>bit</u> the man. (Past Simple)
  - o Passive: <u>The man was bitten by the dog.</u> (Past Simple Passive)

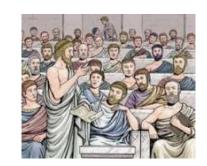


The cat was chasing the mouse.

1.	The mouse
The go	pose fed the panda.
2.	The panda
The mo	an has given the panther a pair of smelly shoes.
3.	The panther
The co	it wakes the woman up every morning.
4.	The woman
The po	lice caught the escaped prisoners.
5.	The escaped prisoners
Barbie	is destroying Ken's clothes.
6.	Ken's clothes
The fi	shermen caught Dory in their net.
7.	Dory
The T	Rex was carrying the minions on its back.
8.	The minions
The cr	rabs injured the bird.
9.	The bird
The gr	reen chick has eaten the worm.
10.	The worm

#### Sticky Knowledge History: Democracy in Ancient Greece

Read through the statements, then cut them up and sort them in to the different boxes.



The group of men who make daily decisions are chosen randomly.	Voters can choose from a few different political parties. Each party has a different set of ideas.
MPs are voted for and join together to make a parliament.	There is no police; a group of 500 jurors decide the punishments.
All citizens (men and women) over the age of 18 can vote.	The elected party will stay in power for four years.
Only men are allowed to vote.	Any male citizen can join the assembly who meet regularly to make decisions about how the state is run.

Democracy in Ancient Greece	Democracy in the UK today

#### English Home Learning Y6

#### 29/06/2020 - Introduction

Each week you will receive a set of English tasks. You should aim to complete one each day. Spending about 30 minutes on the picture and question time task, 45 minutes on writing and at least 20 minutes on grammar and spelling.

This fine for you to ask for help from penents, siblings on your tasken through

It is fine for you to ask for help from parents, siblings or your teacher through teams.

If you love reading and writing and want more of a challenge you can keep writing stories based on your own ideas or other books you have read.

#### You can explore

<u>www.lovereading4kids.co.uk</u> or <u>www.newsela.com</u> to find more extracts to read and write about.

## The house in the rainforest



#### Year 6 - The house in the rainforest - Day 1

# Question time!

Do you think the house in the image is actually in the Malaysian rainforest? Give evidence to support your answer.

Which continent is Malaysia in?

If you were to stumble into the Malaysian rainforest, what plants and flowers might you come across? Name at least three examples with a description.

Malaysian rainforests support a vast diversity of plant and animal life. Name three creatures you might come across.

Who might live in a house like this? Explain your answer.

Living in this house in the rainforest would be very different to living in a house in a city. Give three examples of how it would be different.

If you lived in the Malaysian rainforest, what might a typical day be like for you and your family?

#### Tuesday 30th June 2020 Sick Sentences

#### Year 6 - The house in the rainforest - Day 2

#### Sick sentences!

These sentences are sick and need your help to get better!

There is a house. It is in the rainforest. There are plants. There are flowers.

#### Wednesday 31st June 2020 Story Starter

#### Year 6 - The house in the rainforest - Day 3

#### Story starter!

Hidden deep in the Malaysian rainforest, is a house. Not an ordinary house of course...

Can you continue the rest of the story from this starter? What kind of story will it be?

What language do you need to engage the reader?

Think carefully about opportunities to add high level punctuation and different sentence structures.

#### Thursday 1st July 2020 Grammar Sentence Challenge

#### Year 6 - The house in the rainforest - Day 4

#### Sentence challenge!

Using the passive and active voice.

#### Passive voice

The house, which is hidden deep in the Malaysian Rainforest, is surrounded by luscious, green plants.

#### Active voice

Luscious, green plants surround the house, which is hidden deep in the Malaysian Rainforest.

Write three of your own sentences about this image using the passive and active voice.

## Friday 2<sup>nd</sup> July 2020 Spelling

## Year 6 - The house in the rainforest - Day 5

accommodate	accompany	according
aggressive	amateur	ancient
apparent	appreciate	attached
available	average	awkward

## Year 6 Home Learning - Maths: Area and Perimeter - Monday 29th June 2020

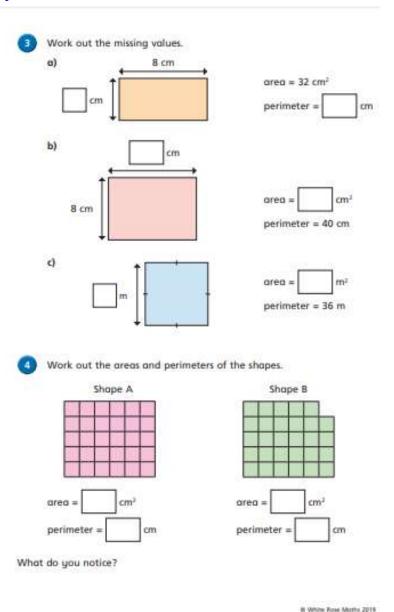
Please watch the video first: <a href="https://vimeo.com/430339457">https://vimeo.com/430339457</a>

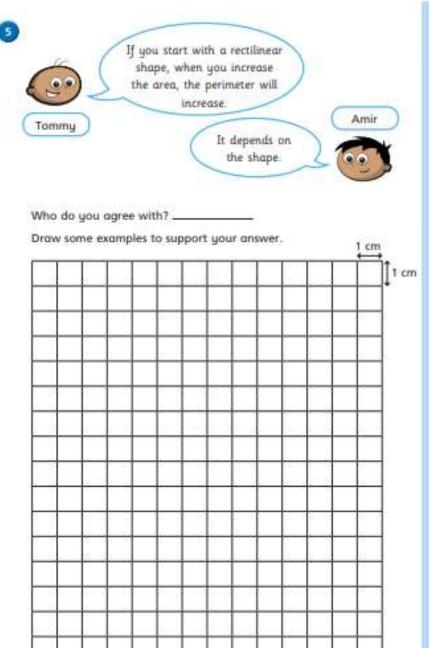
# Area and perimeter Use the words to complete the sentences. perimeter inside around is the amount of space \_ two-dimensional shape. It can be measured in units such as or \_\_\_ is the distance \_\_\_\_\_ a two-dimensional shape. It can be measured in units such as \_\_\_\_\_ or Work out the areas and perimeters of the shapes. 6 cm 4 cm 4 cm 2 cm perimeter perimeter

area =

cm<sup>2</sup>

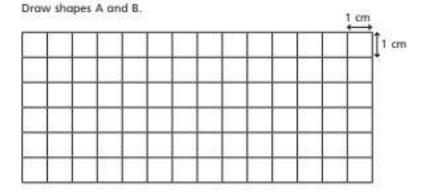
area =







- Two rectilinear shapes, A and B, each have an area of 12 squares.
  - Shape A has the largest perimeter possible.
  - Shape B has the smallest perimeter possible.



What do you notice?

Mr Jones has 50 m of fencing.

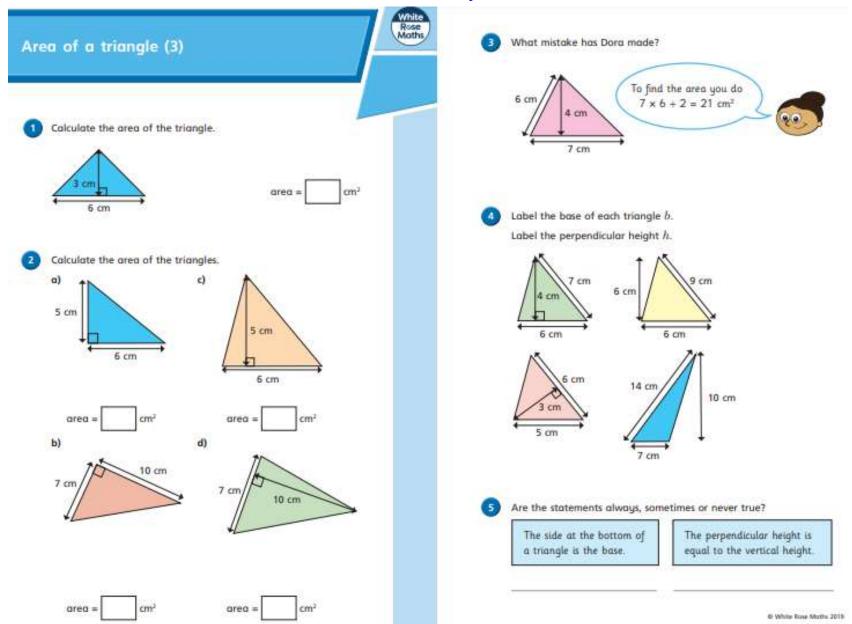
He wants to make a rectilinear enclosure using all the fencing.

a) Draw an example of a shape he could make. Give units on your diagram.

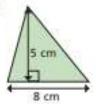
b) What is the greatest possible area of the enclosure?

# Year 6 Home Learning - Maths: Area of a triangle (3) - Tuesday 30<sup>th</sup> June 2020

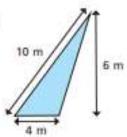
Please watch the video first: https://vimeo.com/430339609



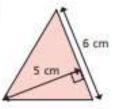
0)



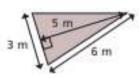
d)



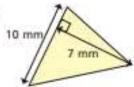
b)



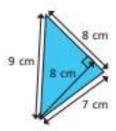
e)



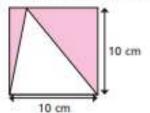
c)



Ð

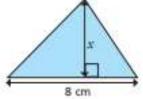


Find the area of the shaded region.

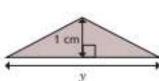


The area of each triangle is 12 cm<sup>2</sup>. Find the missing lengths.

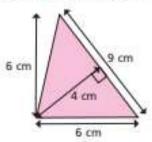






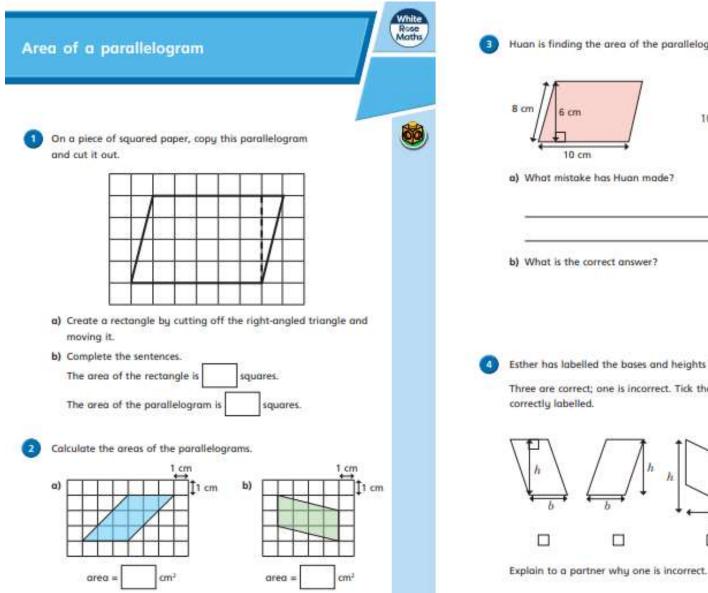


Show two ways you can work out the area of the triangle.



Compare answers with a partner.

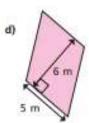
## Year 6 Home Learning - Maths: Area of a parralelogram - Wednesday 1st July 2020 Please watch the video first: https://vimeo.com/430339748



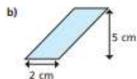
Huan is finding the area of the parallelogram.  $10 \times 8 = 80 \text{ cm}^2$ a) What mistake has Huan made? b) What is the correct answer? Esther has labelled the bases and heights for four parallelograms. Three are correct; one is incorrect. Tick the shapes that have been correctly labelled.

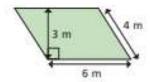
#### Calculate the areas of the parallelograms.





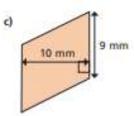


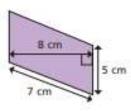






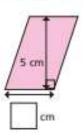
f)

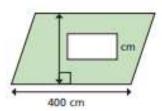




6 Find the missing lengths.

a)

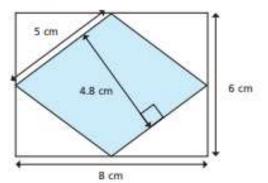




area = 15 cm2

 $area = 12 \text{ m}^2$ 

7) Here is a rhombus inside a rectangle.



b)

a) Calculate the area of the rhombus.

area = cm²

b)

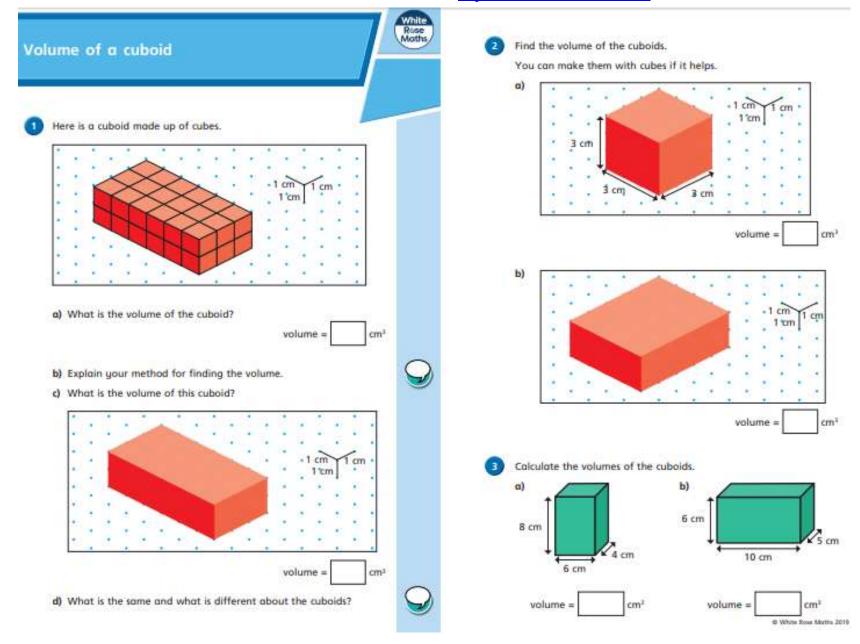
The area of the rhombus is half the area of the rectangle. This means that it is a special triangle.

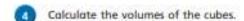


Explain to a partner why Mo is wrong.

# Year 6 Home Learning - Maths: Volume of a cuboid - Thursday 2<sup>nd</sup> July 2020

Please watch the video first: <a href="https://vimeo.com/430339843">https://vimeo.com/430339843</a>





a)

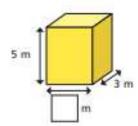


volume = cm<sup>2</sup>

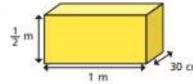


volume = mm²

The volume of the cuboid is 60 m<sup>3</sup>
Find the missing length.

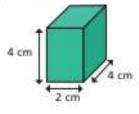


6 Calculate the volume of the cuboid.

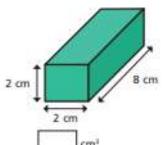


volume = cm<sup>3</sup>

a) Calculate the volumes of the two cuboids.







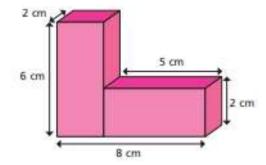
What do you notice?



h	Deaw two	different	embolde	theet	house a	was alleged	10 of 70	A com
в	1 DEGRA TWO	CHITETERN	CUDORS	THOT	DICTION I	T VOULIE	144 151 24	4 (111)



Calculate the total volume of the shape.



volume = cm<sup>3</sup>

Was there another method you could have used?

# year 6 Home Learning - Maths recap: Calculating scale factors - Friday 3<sup>rd</sup> July 2020

	He has this list of ingredients to make 6 biscuits.
	Chacolate chip biscuits (makes 6)
Whitney buys 6 cans of lemonade for £3	120 g butter
a) How much do 12 cans cost?	72 g sugar
	180 g plain flour
	60 g chocolate chips
b) How much do 3 cans cost?	
	<ul> <li>a) How much of each ingredient does Amir need to n</li> <li>2 biscuits?</li> </ul>
c) How much do 15 cans cost?	9 (2000 100 100 100 100 100 100 100 100 100
y now much do 15 cars cost:	butter g plain flour
	sugar g chocolate chips
The ratio of red to green grapes in a bowl is 3:1	
The ratio of red to green grapes in a bowl is 3:1  a) Explain what this means.	
(E) 1	b) How much of each ingredient does Amir need to n 10 biscuits?
(E) 1	
(E) 1	b) How much of each ingredient does Amir need to n 10 biscuits?  butter g plain flour
(E) 1	10 biscuits?

