

## Year 6 - Home Learning Project - Week 13 - 13/07/2020: Perilous Peaks

### Daily activities:

<p><b>English worksheet and tasks</b></p> <p>Look at 'The House in The Rainforest' and complete the tasks below.</p>	<p><b>Maths</b></p> <p>Complete the <a href="#">White Rose Maths</a> tasks at the end of this document - 1 per day. <b>Ensure you watch the video before you complete the task.</b></p>	<p><b>Reading Plus</b></p> <p>Log into <a href="#">Reading Plus</a> and complete your weekly reading comprehension tasks and vocabulary tasks. <i>Site code: rpendea2</i></p>	<p><b>TTRS</b></p> <p>Working on <a href="#">Times Table Rockstars</a> - Can you complete all the set games and challenge somebody in our school? Are you winning in the current Battle of the Bands?</p>	<p><b>PE session</b></p> <p>Join Joe Wickes live every Mon, Weds and Fri morning @ 9:00am or access it any time throughout the day.</p>	<p><b>A Topic activity from the choices below.</b></p> <p>Try to complete all of the tasks and send your work to your teacher.</p>
--	---	---	---	---	--

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

### Geography: The Alps



The Alps is the greatest mountain range of Europe. It reaches from Austria and Slovenia in the east through Italy, Switzerland, Liechtenstein and Germany; to France in the west. The original meaning of the word was 'white'. The highest mountain in

the Alps is Mont Blanc, at 4,803 metres (15,774ft) on the Italian-French border.

Take a look at the majestic views and find out a bit more about these special mountains on

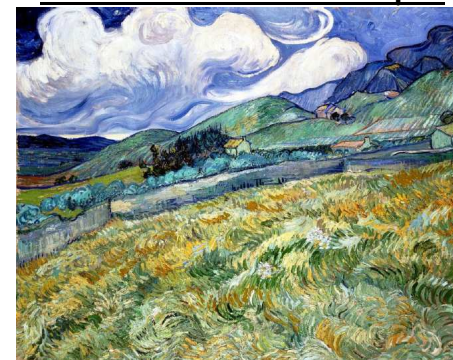
[BBC Bitesize](#).

What else can you find out about the mountain range? What animals live there? Is the climate the same across all of The Alps? Complete further research on [Kiddle](#).

Look at the information sheet below and gather evidence under each heading.

Remember to check different sources if necessary and where possible always try to put your research in your own words.

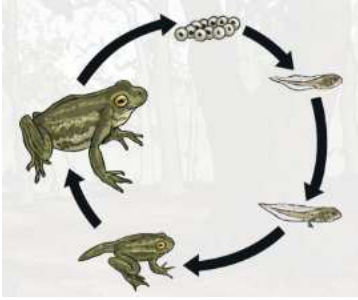
### Art: Mountain Landscapes



Continuing with our theme of impressionism we're going to find out more about the artist Van Gogh and sketch a mountain landscape in the same style as his famous painting "Wheatfield with Mountains in the Background, 1889".

Begin by finding out about the artist [here](#). Then follow the steps found below to practise different areas of the painting.

### Science: comparing life cycles



All living things go through a series of developmental stages known as a life cycle. For most plants and animals, the cycle begins when an ovum (egg cell) grows and matures into adulthood. At this point the organism is able to reproduce, and the cycle continues with the next generation. Some life cycles are very short, with organisms developing to adulthood in a matter of days or weeks. Other life cycles, such as that of the oak tree, can run for decades or even hundreds of years.

**Task 1:** think about what you have learned in the world around you and in your science lessons so far. Can you use this knowledge to answer these questions? Are there any you're not sure about?

- Do bats lay eggs because they have wings just like birds?
- Do whales lay eggs because they live in water just like fish?
- Do animals that look similar always have the same kind of life cycle?
- Do all animals that are a similar size always have the same kind of life cycle?
- Do animals that live in the same habitat always have the same kind of life cycle?
- Do only females carry and feed the young?

### **Task 2:**

Mammals are warm-blooded animals with fur or hair on their skin and a skeleton inside their body. Mammal mothers produce milk to feed their babies. Look below at your science task information and read about the different life cycle stages for mammals. Choose your own mammal to research then draw and label the three main stages of life.

### **Task 3:**

Amphibians are a class of animals like reptiles, mammals, and birds. They live the first part of their lives in the water and the last part on the land. When they hatch from their eggs, amphibians have gills so they can breathe in the water. They also have fins to help them swim, just like fish. Read about the life cycle of amphibians below and then present your findings in a fold or flip book.



### Spanish: Numbers and Introductions

Open the link on the [Oak National Academy home learning website](#) to enjoy an online Spanish lesson with Senorita Harrison. In this lesson you will recap on your knowledge of the Spanish alphabet and Spanish numbers. After that, you'll practise Spanish introductions and perfect your pronunciation of the letter sounds in Spanish.



### English Grammar: Prepositions

This week's focus is on prepositions. A preposition is a word that tells you where or when something is in relation to something else.

Read through the explanations and examples underneath and when you're finished try the grammar mini quiz found below.



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



### History: Olympics

The first Olympics were held in Greece in 776 BCE. They were very different to the modern Olympics we experience today. Recap on your knowledge of the ancient games by watching this [Ted Talk video](#) and on [BBC Bitesize](#).

What are the similarities and differences? Find out more on [this video link](#) (it might be useful to make notes when you get to 3.15 minutes)

Complete the Venn diagram below to compare the ancient and modern Olympics, for example a similarity (put these in the middle intersection) might be that both ancient and modern Olympics occur every four years. A difference might be that the ancient Olympics only had male competitors while the modern Olympics have men and women.



### Geography: Biomes

Biomes are areas around the world with similar animals and plants, climate and landscape.

Find out more about the different biomes on [BBC Bitesize](#) and then complete the matching activity online. Find further information on [Kids Britannica](#). Choose one biome and create an information poster.





### Science: Evolution and Inheritance

This year we learned all about **evolution** (the way that living things change over time.) **inheritance** (When living things reproduce and pass on characteristics to their offspring) and **adaptation** (the process by which animals, plants and other living things have changed so that they better suit their habitat) Recap on all of this knowledge by watching the three video clips on [BBC Bitesize](#). When you're feeling more confident complete the quiz for each video.



Underneath, you will find a revision grid for the evolution and inheritance topic - complete each section using clear scientific language.

#### Website links mentioned above:

<https://kids.kiddle.co/Alps> - Kiddle information on The Alps

<https://www.bbc.co.uk/bitesize/topics/z3fycdm/articles/zb3ywy> - BBC Bitesize Alps

<https://www.bbc.co.uk/bitesize/clips/z8fgkqt> - Art - Van Gough

<https://classroom.thenational.academy/lessons/introducing-yourself-in-spanish-591968> - Spanish numbers and introduction Oak National Academy

<https://www.bbc.co.uk/bitesize/topics/z87tn39/articles/z36j7ty> - History sticky knowledge

<https://www.youtube.com/watch?v=VdHHus8IqYA> - History sticky knowledge history of the ancient Olympics video

<https://www.youtube.com/watch?v=uSf7-LsmU3Y> - History sticky knowledge comparison video

<https://www.bbc.co.uk/bitesize/topics/z849q6f/articles/zvsp92p> - Geography sticky knowledge - Biomes BBC Bitesize

<https://kids.britannica.com/kids/article/biome/403913> Geography sticky knowledge - Biomes Kids Britannica

<https://www.bbc.co.uk/bitesize/topics/zvhhvcw> - Science sticky knowledge - evolution and inheritance



Research information about The Alps mountain range under the headings below. Remember to put information in your own words.

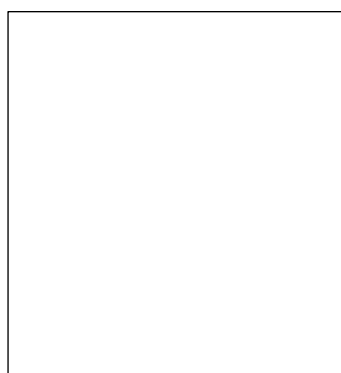
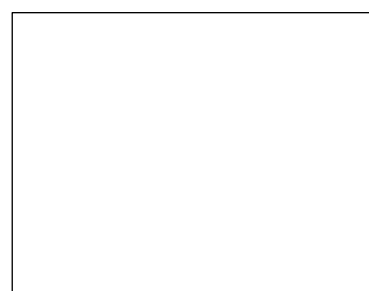
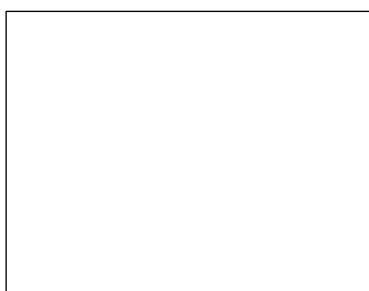
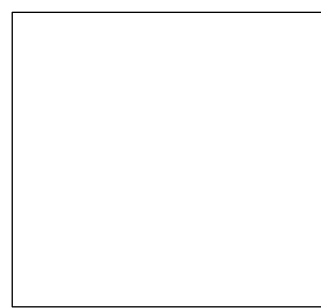
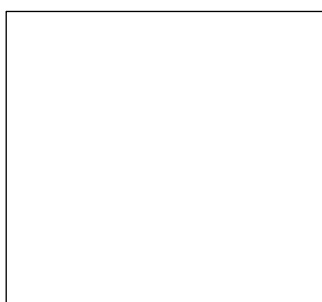
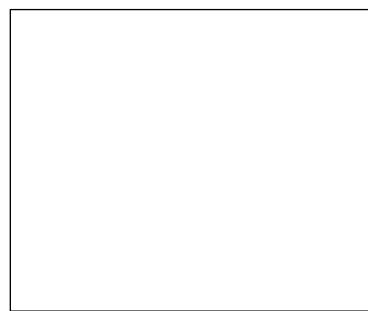
<p>What countries does The Alps mountain range span?</p>	
<p>Geography of The Alps e.g. highest peak, area in m<sup>2</sup> etc.</p>	
<p>Describe the climate of The Alps. Is it the same throughout the whole area?</p>	
<p>What wildlife would you find there?</p>	

What kind of plants and trees grow there?	
What do tourists enjoy in the area?	

## Art - Van Gogh Mountain Landscape



- 1) Sit quietly and take a good look at the painting. What do you notice? How does it make you feel? What colours have been used by the artist?
- 2) Van Gogh has included various buildings. Zoom in on these. Look at the lines and angles he has used. Try to recreate these parts of the painting.
- 3) Look at the hills in the distance. How has the artist created this perspective? Look at the brush strokes and colour used for the wheat fields. Can you recreate this?





## Science: comparing life cycles task 2

### Mammals

The life cycle of a mammal involves three main stages:



Independent adult usually seeks company from the opposite sex and mates. Adult female nurses their young.

#### Mammals:

- have hair or fur;
- Are warm-blooded;
- feed babies milk;
- give live birth.



**Gestation:** Embryo growing inside the mother, where it is completely reliant upon the mother.

**Young:** Main period of growth and developing independence from the parents.

Choose a different mammal and draw the life cycle stages.



## Science: comparing life cycles task 3

# Amphibian

The life cycle of a frog involves five main stages:

**Start**

The female lays masses of **eggs** which are fertilised by the male.

After 25 days, the **tadpole** hatches from the egg. It swims and eats plants. It breathes through its gills.

The tadpole grows front legs and its tail shortens. It uses nutrients in its tail as food. It jumps out of the water on to the land.

The tadpole grows fins and a stronger tail. Then it develops lungs and hind legs.

The tail disappears and it starts to eat insects instead of plants. It takes two to four years to become an **adult frog** when it can lay eggs.

**Amphibians:**

- live in water and on land;
- have moist, slimy skin;
- lay eggs.

Can you use this information to create your own flip or fold book to present your learning about the life cycle of a frog (or a different amphibian)?



## English Grammar: Prepositions

### Prepositions of Location: The Rules

Prepositions are used to show the **location, time** or **movement** of nouns or pronouns.

Prepositions of **location** show the **place** or **position** of a noun or pronoun e.g.

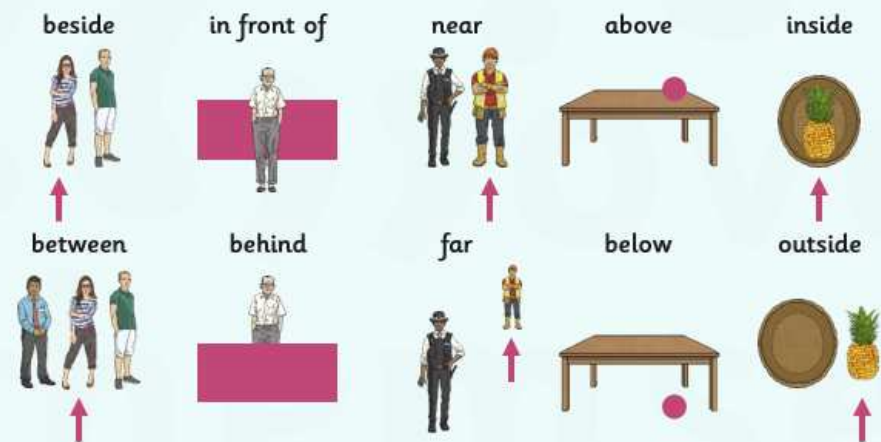
The tools were **inside** the garden shed.

**Behind** the cloud, the sun peeped.

Harry sat **under** the shady tree.

### Prepositions of Location: The Rules

There are many prepositions of **location**. Here are a few of the most commonly used ones:



### Prepositions of Time: The Rules

Some prepositions show **time**. The three most commonly used time prepositions are **at, on** and **in**.

**At** the weekend, I am going to the cinema.

I go to swimming lessons **on** Thursdays.

Leaves turn brown **in** the Autumn.

### Prepositions of Time: The Rules

There are many more prepositions that show and signal **time**...

before

since

until

by

before

during

as

past

## Prepositions of Movement: The Rules

Other prepositions can show **movement** or **direction**.

Yasmin zoomed **down** the slide.

The pig jumped **into** the pond.

Ben reluctantly got **out of** bed.

## Prepositions of Cause: The Rules

Other prepositions can tell us about how something is **caused** by something else.

**Due to** the loud noise, Joy covered her ears.

The match was cancelled **because of** the weather.

Kyle was admitted to hospital **as a result** of his blood test results.

## Prepositions: The Tricky Bits

Some prepositions can also be **subordinating conjunctions**.

after

before

until

as

since

**Since** she won the contest, Vicky had become famous.

In this example 'since' is used as a subordinating conjunction to form a subordinate clause.

I haven't had a shower **since** Tuesday.

In this example 'since' is used as a preposition.

This can be very confusing! If the word is used **within a clause that contains a subject and a verb**, then it is usually being used as a **subordinating conjunction**.

**Now try this preposition mini test**

1. Tick **all** of the sentences that contain a **preposition**.

The children walked across the field.

Jayden wants to stand by Emma.

They forget their PE kits and they don't bring their letters.

Her mum works in an office.

.....

2. Tick the option that shows how the underlined word is used in the sentence.

The flowers grew beside the tree.

As a time preposition

As a cause preposition.

As a clause preposition.

As a place preposition.

3. Write a sentence using **before** as a preposition.

---

---

4. Explain how to get into your classroom using **three or more different** prepositions.

---

---

---

---

5. Put the prepositions in the table.

thanks to	because of	under	on Wednesday
through	at 2 o'clock	in spring	next to

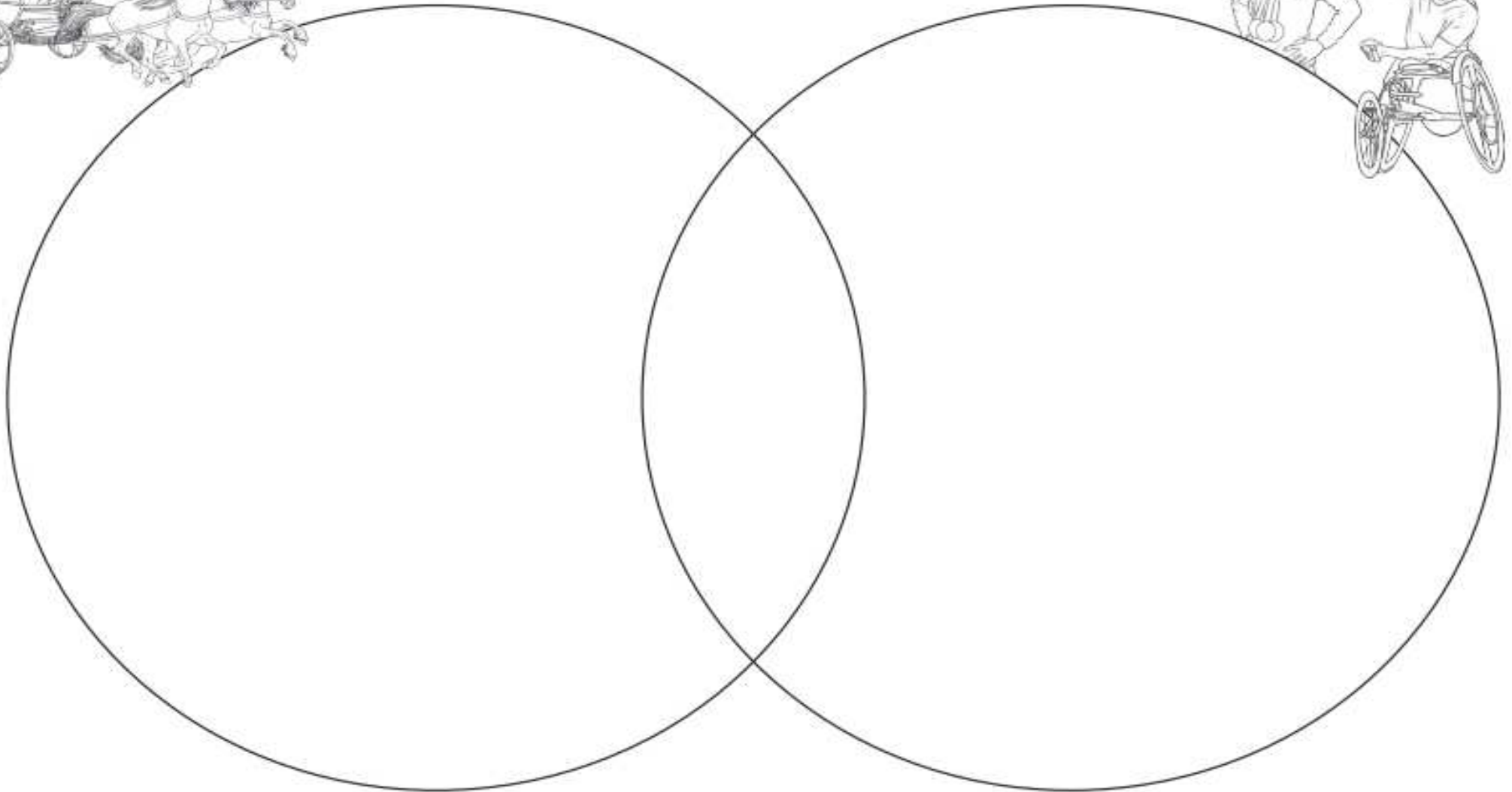
Prepositions for place	Prepositions for cause	Prepositions for time

# Ancient Olympics vs. Modern Olympics

**Ancient Olympics**



**Modern Olympics**



## Science sticky knowledge: Evolution and Inheritance

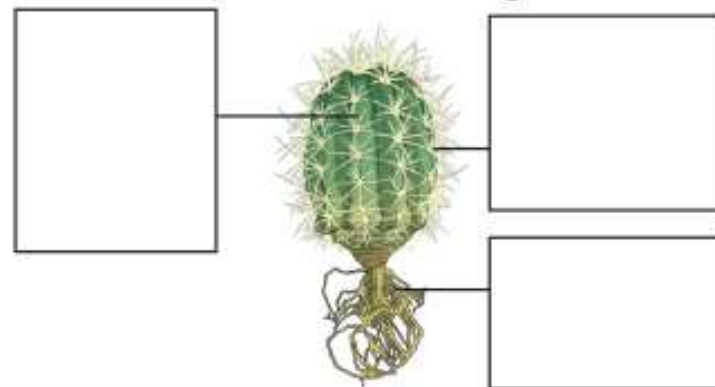
Fill in the gaps to complete the sentences.

All \_\_\_\_\_ things are made of \_\_\_\_\_. In the centre of a cell is the nucleus. This is where all the \_\_\_\_\_ is stored.

The genetic material is contained in chromosomes that are made of \_\_\_\_\_. This makes us who we are.

Keywords: DNA, cells, genetic material, living

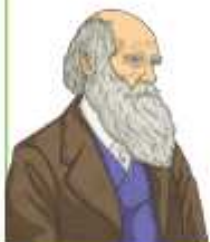
A cactus is adapted to survive in dry conditions. Label its adaptations on the diagram.



Complete the sentence.

Charles Darwin developed the theory of \_\_\_\_\_.

Who else came up with the same theory?



List three ways a lion is adapted to catch prey.

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_



Is this statement true or false?

'Variation is when characteristics of an animal or plant are different, caused by inherited and environmental factors.'

\_\_\_\_\_



English Home Learning Y6

13/07/2020 -

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.

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

[www.lovereadings4kids.co.uk](http://www.lovereadings4kids.co.uk) or [www.newsela.com](http://www.newsela.com) to find more extracts to read and write about.

### **A mysterious shadow**



Monday 13<sup>th</sup> July 2020 Question Time  
Year 6 - A Mysterious Shadow - Day 1

### **Question Time**

What is the difference between a shadow and a silhouette?

What causes a shadow?

Why do shadows sometimes change size?

Can you make a shadow in a dark room?

Why are shadows always black?

Tuesday 14<sup>th</sup> July 2020 Sick Sentences  
Year 6 - A Mysterious Shadow - Day 2

### **Sick sentences**

These sentences are 'sick' and need your help to get better. Can you help?

The shadow went across the garden. A light shone. The shadow touched the lock and opened the door.

Wednesday 15<sup>th</sup> July 2020 Grammar Sentence Challenge  
Year 6 - A Mysterious Shadow - Day 3

### **Sentence challenge**

A preposition is a word which shows the relationship between one thing and another.

It may tell you where a thing is in relation to something else. E.g. The silver, shining bolt was on the door.

It may tell you when something is in relation to another event. E.g. She refused to leave the room until she knew the coast was clear.

Can you find any prepositions in your writing? Can you write 3 sentences that contain prepositions?

Is it possible to begin a sentence with a preposition? Can you end a sentence with a preposition? What about trying to start and end a

Thursday 16<sup>th</sup> July 2020 Story Starter  
Year 6 - A Mysterious Shadow - Day 4

Read the beginning of the story based on 'A Mysterious Shadow' - can you complete the story in the same style? Don't forget to include the grammar you have been learning the last few weeks e.g. subordinate clauses and prepositions.

**Story starter**

It happened in the dead of night. The garden light illuminated the person, casting a mysterious shadow.

As silent as a whisper in the night, the figure stealthily crept towards the green, wooden doors. Click...The key slipped into the metal lock, the cold mechanisms inside responding to the familiar shape of the object that had been slipped inside. Seeing the padlock pop open as expected, the figure slipped the slender bolt across into its resting position. The doors groaned agonizingly, the figure turning to survey the surrounding area, alarmed at the loudness of the sound their actions had made.

The coast seemed clear. Resuming their mission, the shadow slipped inside the room. There it was. This was the sight and moment they had been waiting for...

Friday 17<sup>th</sup> July 2020 Spelling  
Year 6 - A Mysterious Shadow - Day 5

correspond

criticise

curiosity

definite

desperate

develop

dictionary

disastrous

embarrass

environment

equipment

equipped

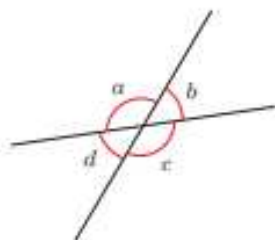
# Year 6 Home Learning - Maths: Vertically Opposite Angles - Monday 13<sup>th</sup> July 2020

Please watch the video first: <https://vimeo.com/434627555>

## Vertically opposite angles



1 The diagram shows four angles formed by two straight lines.



a) Measure the sizes of the angles.

$a =$    $b =$    $c =$    $d =$

b) What is the total of angles  $a$  and  $b$ ?

Explain why.

\_\_\_\_\_

Do any other pairs of angles have this same total?

c) Angles  $a$  and  $c$  are vertically opposite angles.

What do you notice about the sizes of angles  $a$  and  $c$ ?

\_\_\_\_\_

d) Angles  $b$  and  $d$  are also vertically opposite angles.

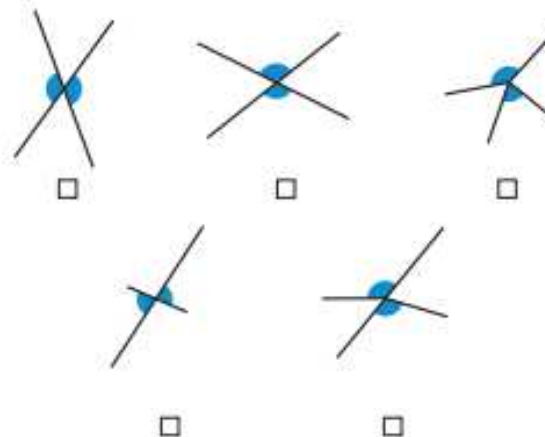
What do you notice about the sizes of angles  $b$  and  $d$ ?

\_\_\_\_\_

e) Complete the sentence.

Vertically opposite angles \_\_\_\_\_

2 Tick the pairs of angles that are vertically opposite.

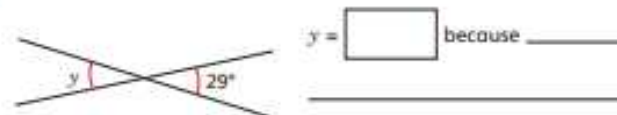


Compare answers with a partner.

3 Work out the sizes of the unknown angles.

Give reasons for your answers.

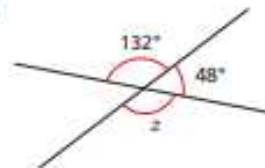
a)



$y =$   because \_\_\_\_\_

\_\_\_\_\_

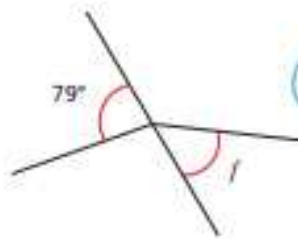
b)



$z =$   because \_\_\_\_\_

\_\_\_\_\_

- 4 Annie is working out the size of angle  $f$ .



Angle  $f$  is equal to  $79^\circ$  because vertically opposite angles are equal.



Do you agree with Annie? \_\_\_\_\_

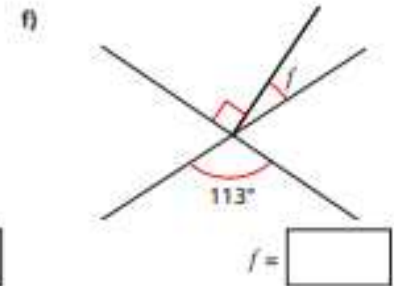
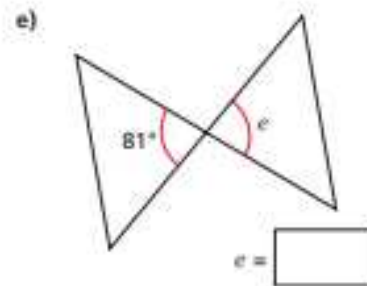
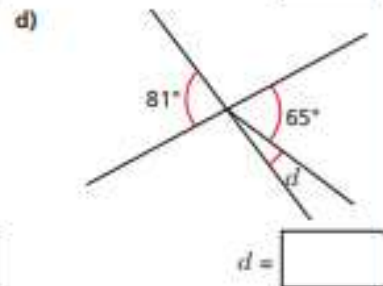
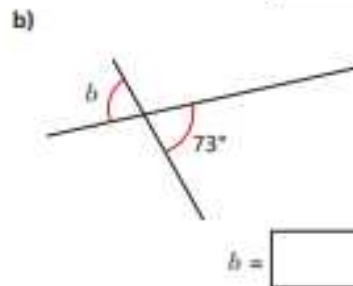
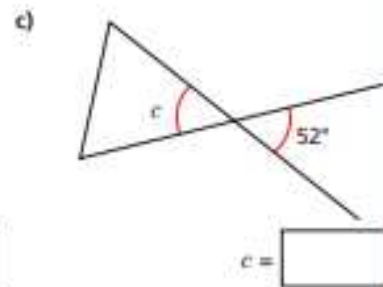
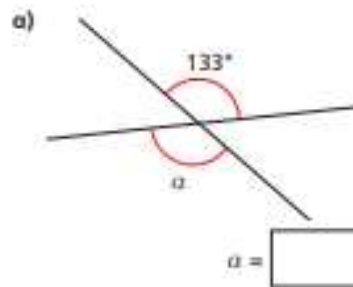
Explain your answer.

---



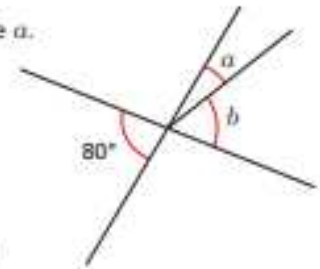
---

- 5 Work out the unknown angles.



Talk about your reasons with a partner.

- 6 Angle  $b$  is three times the size of angle  $a$ .

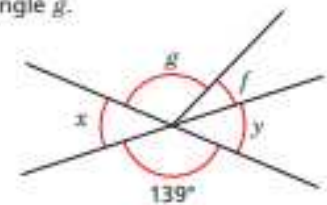


Work out the sizes of angles  $a$  and  $b$ .

$a =$  [ ]       $b =$  [ ]

- 7 Angle  $f$  is one quarter of the size of angle  $g$ .

Angle  $f$  is  $28^\circ$ .



Are angles  $x$  and  $y$  vertically opposite? \_\_\_\_\_

Explain your answer.

---



---

Year 6 Home Learning - Maths: Angles in a triangle (missing angles) - Tuesday 14<sup>th</sup> July 2020

Please watch the video first: <https://vimeo.com/434627646>

Angles in a triangle – missing angles



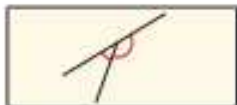
1 Match each diagram to the correct rule.



Angles on a straight line sum to  $180^\circ$



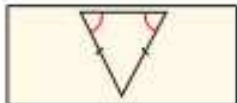
Angles around a point sum to  $360^\circ$



Angles in a triangle sum to  $180^\circ$



In an isosceles triangle, two angles are equal

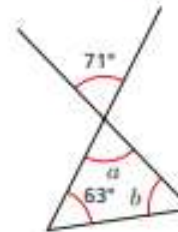


Vertically opposite angles are equal

2 Work out the sizes of the unknown angles.

Give reasons for each stage of your working.

a)



$a =$   because \_\_\_\_\_

$b =$   because \_\_\_\_\_

b)

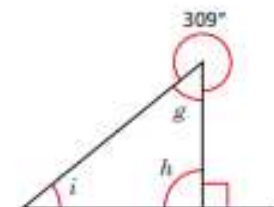


$d =$   because \_\_\_\_\_

$e =$   because \_\_\_\_\_

$f =$   because \_\_\_\_\_

c)

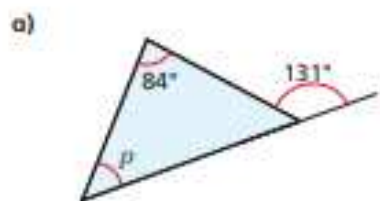


$g =$   because \_\_\_\_\_

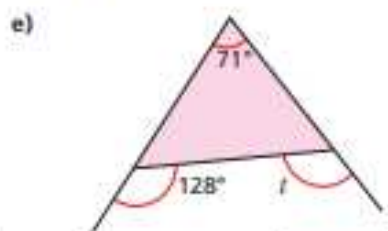
$h =$   because \_\_\_\_\_

$i =$   because \_\_\_\_\_

3 Work out the sizes of the angles marked with letters.



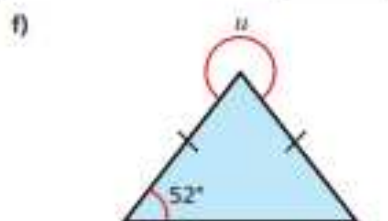
$p =$



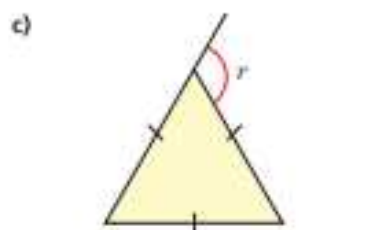
$t =$



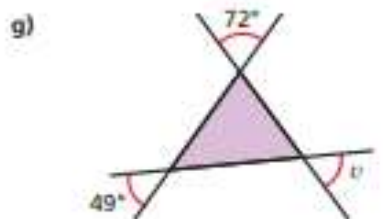
$q =$



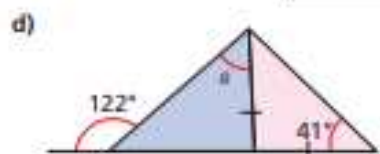
$u =$



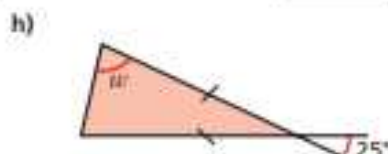
$r =$



$v =$

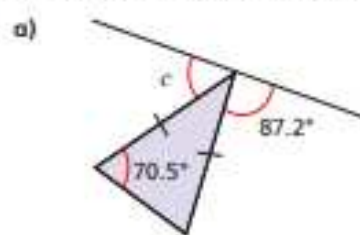


$s =$

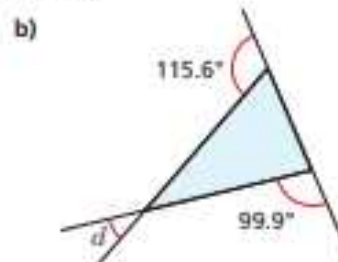


$w =$

4 Work out the sizes of the unknown angles.

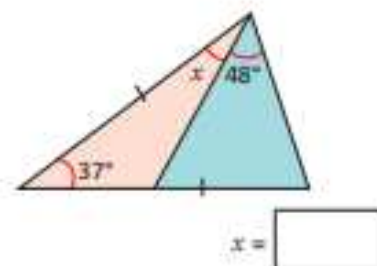


$c =$

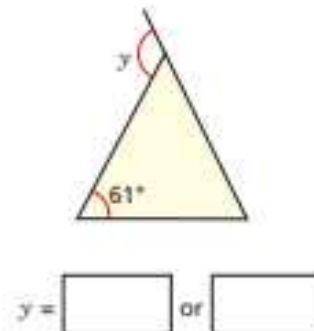


$d =$

5 Work out the size of angle  $x$ .



6 Here is an isosceles triangle. Find two possible sizes of angle  $y$ .



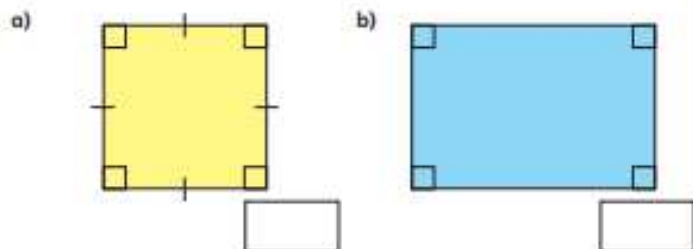
# Year 6 Home Learning - Maths: Angles in special quadrilaterals - Wednesday 15th July 2020

Please watch the video first: <https://vimeo.com/434627734>

## Angles in special quadrilaterals

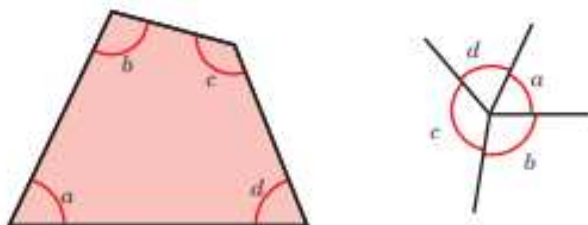


1 Work out the sum of the angles in each shape.



What do you notice?

2 The diagrams show the four vertices of a quadrilateral arranged around a point.

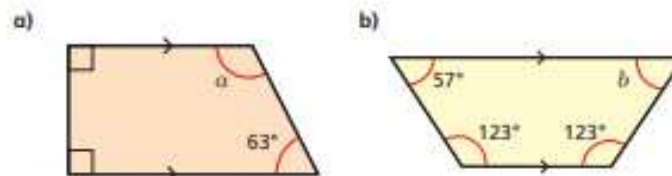


What do the diagrams illustrate about the sum of the angles in a quadrilateral?

Complete the sentence.

Angles in a quadrilateral \_\_\_\_\_

3 Work out the size of the unknown angle in each trapezium.

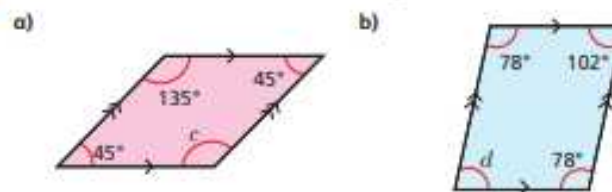


$a =$

$b =$

c) What is the same and what is different about the trapeziums?

4 Work out the sizes of the unknown angles.



$c =$

$d =$

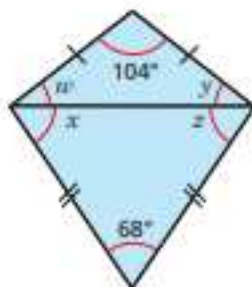
c) What do you notice about opposite angles in a parallelogram?

\_\_\_\_\_



- 5 Two isosceles triangles are joined to form a kite.

a) Work out the sizes of the unknown angles.



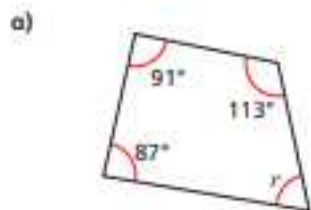
$w =$    $y =$    $x =$    $z =$

b) Work out  $w + x$ .

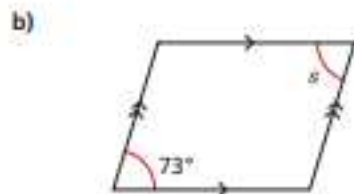
c) Work out  $y + z$ .

What do you notice? Talk about it with a partner.

- 6 Work out the sizes of the unknown angles.

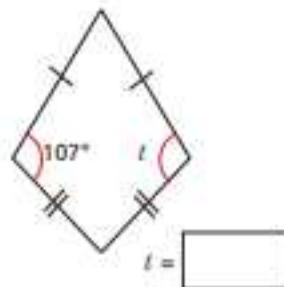


$r =$

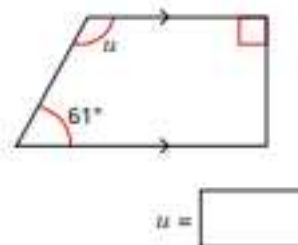


$s =$

c)



d)



Compare your reasoning with a partner.

- 7 Teddy is drawing a quadrilateral.

My quadrilateral has exactly three right-angles.



Is Teddy's quadrilateral possible? \_\_\_\_\_

Explain your answer.

---



---

# Year 6 Home Learning - Maths: Angles in polygons - Thursday 16th July 2020

Please watch the video first: <https://vimeo.com/434627811>

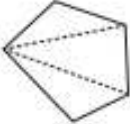
## Angles in regular polygons




1 The sum of the interior angles of a triangle is  $180^\circ$ .

Split the polygons into triangles to work out the sum of their interior angles. Your lines should not overlap.


The first one has been done for you.

a)  number of sides =   
 number of triangles =   
 $3 \times 180 =$

The sum of the interior angles of a pentagon is

b)  number of sides =   
 number of triangles =   
  $\times 180 =$

The sum of the interior angles of a hexagon is

c)  number of sides =   
 number of triangles =   
  $\times 180 =$

The sum of the interior angles of a heptagon is

What do you notice about the number of sides compared to the number of triangles?



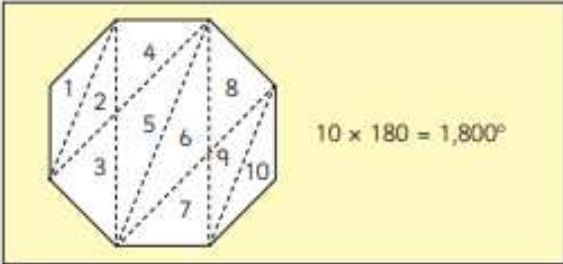
2 Complete the table.

Shape	Number of sides	Number of triangles	Sum of interior angles
quadrilateral	4	2	$360^\circ$
pentagon			
nonagon			
decagon			
	6		
		6	
			$1,800^\circ$

Compare answers with a partner.

3 Dani is working out the sum of the interior angles of a polygon.

Here are her workings.



Do you agree with Dani? \_\_\_\_\_

Explain your answer:

4 Rosie, Amir and Eva are drawing polygons.

a)



Rosie

I have split my polygon into four triangles.

What polygon has Rosie drawn?

\_\_\_\_\_

b)

The sum of the interior angles of my polygon is  $1,080^\circ$ .



Amir

What polygon has Amir drawn?

\_\_\_\_\_

c)



Eva

My polygon has more sides than Rosie's but fewer than Amir's.

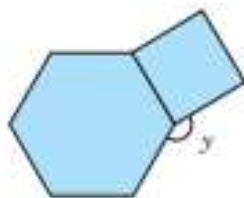
What is the sum of the interior angles of Eva's polygon?



5 Each compound shape is made up of regular polygons.

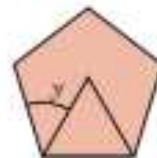
Work out angle  $y$  in each case.

a)



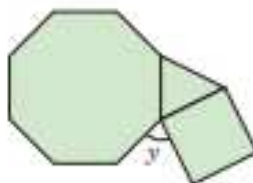
$$y = \boxed{\phantom{00}}$$

c)



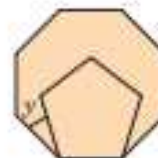
$$y = \boxed{\phantom{00}}$$

b)



$$y = \boxed{\phantom{00}}$$

d)

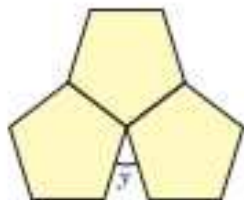


$$y = \boxed{\phantom{00}}$$

6 The pentagons shown are regular.

Work out the size of angle  $y$  in each case.

a)



$$y = \boxed{\phantom{00}}$$

b)

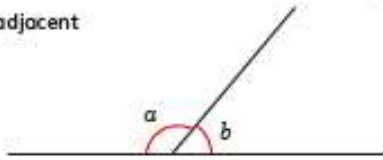


$$y = \boxed{\phantom{00}}$$

## Calculate angles



- 1 Two angles,  $a$  and  $b$ , are adjacent on a straight line.



- a) Measure angles  $a$  and  $b$ .

$a =$

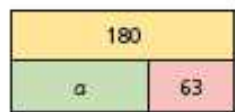
$b =$

- b) What is the total of the two angles?

- c) Complete the sentence.

Adjacent angles on a straight line \_\_\_\_\_

- 2 a) Complete the fact family for the bar model.



$a + 63 =$

$180 -$    $= a$

$63 +$    $=$

$180 - a =$

- b) Tick the calculation in part a) that helps you work out the value of  $a$ .

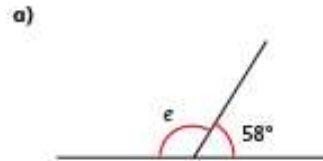
- c) Work out the value of  $a$ .

$a =$

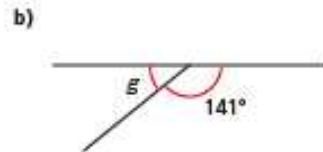
- d) How does the bar model help you to calculate angle  $a$ ?



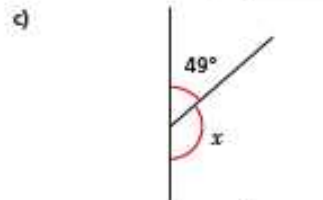
- 3 Work out the unknown angles.



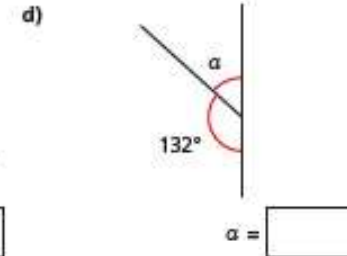
$e =$



$g =$



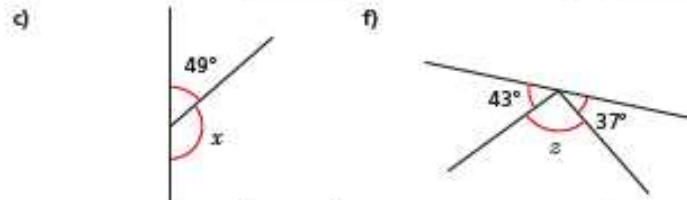
$x =$



$\alpha =$



$y =$



$z =$

- 4 Dora is facing in the direction shown by the arrow. She does a full turn clockwise.



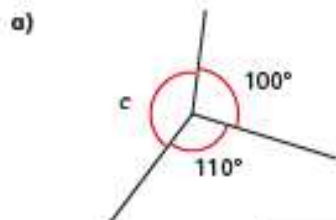
- a) Show Dora's turn on the diagram.

- b) How many degrees did Dora turn through?

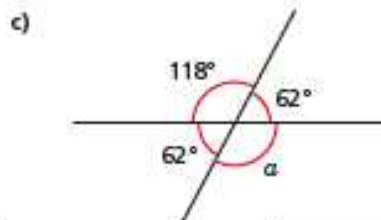
- c) Use your answer to part b) to help you complete the sentence.

Angles around a point \_\_\_\_\_

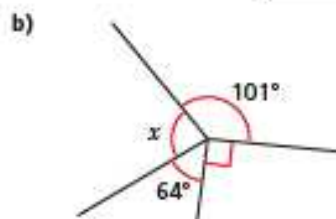
5 Work out the unknown angles.



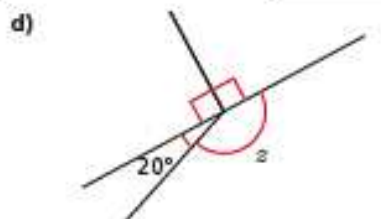
$c = \boxed{\phantom{00}}$



$a = \boxed{\phantom{00}}$



$x = \boxed{\phantom{00}}$



$z = \boxed{\phantom{00}}$

6



Angle  $b$  is  $116^\circ$  because angles on a straight line add up to  $180^\circ$ .



Do you agree with Tommy? \_\_\_\_\_

Explain your answer.

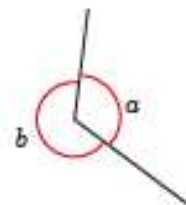
---



---

7 Use the information to work out the unknown angles.

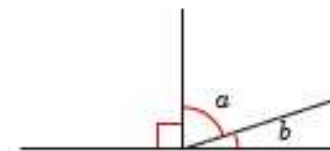
a) Angle  $a$  is half the size of angle  $b$ .



$a = \boxed{\phantom{00}}$

$b = \boxed{\phantom{00}}$

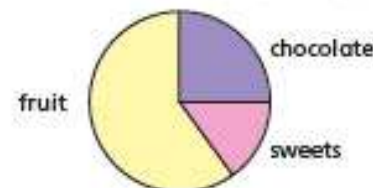
b) Angle  $a$  is four times the size of angle  $b$ .



$a = \boxed{\phantom{00}}$

$b = \boxed{\phantom{00}}$

8 The pie chart shows some children's favourite snacks.



A quarter of the children said chocolate was their favourite snack.

Five times as many children voted for fruit as voted for sweets.

Work out the size of the angle for each sector in the pie chart.

chocolate  $\boxed{\phantom{00}}$

sweets  $\boxed{\phantom{00}}$

fruit  $\boxed{\phantom{00}}$





Year 5 Home Learning – Maths Lesson 1: Regular and irregular polygons - Monday 6<sup>th</sup> July 2020

Please watch the video first: <https://vimeo.com/434626861>

Year 5 Home Learning – Maths Lesson 2: Reasoning about 3D shapes- Tuesday 7<sup>th</sup> July 2020

Please watch the video first: <https://vimeo.com/434626976>

Year 5 Home Learning – Maths Lesson 3: Reflection – Wednesday 8<sup>th</sup> July 2020

Please watch the video first: <https://vimeo.com/434627078>

Year 5 Home Learning – Maths Lesson 4: Translation – Thursday 9<sup>th</sup> July 2020

Please watch the video first: <https://vimeo.com/434627281>



Year 5 Home Learning – Maths Lesson 5: Friday challenge – Friday 10<sup>th</sup> July 2020



