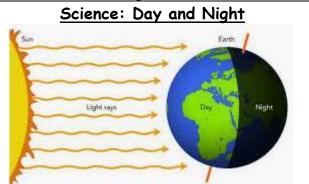
Year 6 - Home Learning Project - Week 6 - 11/05/2020: Infinity and Beyond (4)

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

This week's themed learning is based around our <u>new topic</u> of Space - Infinity and Beyond



Notifier and to the second

Watch the <u>time lapse video</u> of the sky changing from Day to Night. What do you notice? What is happening? How can you explain it?

During the course of 24 hours the Earth spins on its own axis

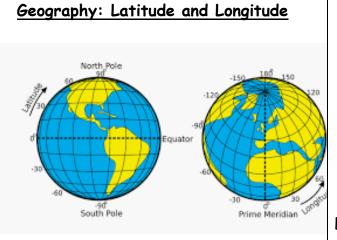
(turns around) as it completes its orbit around The Sun. This can sound really complicated but when you can watch a model of it the idea becomes much clearer. Take a look here on <u>BBC Bitesize</u> and <u>here</u>

Can you act it out with family members? The Sun needs to stand in the centre and you (Planet Earth) need to spin around whilst also going (orbiting) around The Sun. Dizzy yet?

Where would the moon be in all of this? Can you add a third person to your day and night drama?

Now that you've watched an explanation and acted it out could you try to explain this idea to someone else?

Label the diagram (full size underneath) and write an explanation for why we experience day and night. There is a word bank included so remember to use accurate scientific vocabulary.



Latitude and longitude are part of the geographic coordinate system. They help us to map every point on the Globe. Latitude represents the imaginary lines which go vertically around the globe and Longitude represent the lines which go horizontally around the globe.

Watch the BBC Bitesize video <u>here</u>

Then complete the lines of latitude and longitude activity underneath.

History: Copernicus



Last week we looked at the famous scientist Galil and how his work was inspired by Copernicus' heliocentric model of the solar system. This week we would like you to find out more about Copernicus the famous astronomer.

Recap on what you know about Copernicus here And research further information here and here

When you have made notes from your research complete a biography for Copernicus. You can fin template underneath.

Discussion:

Watch this BBC video clip <u>'Who was the greates</u> <u>scientist?'</u>

It's a funny video exploring differences between Galileo and Copernicus. What do you think? Expla somebody at home who you think the greatest scientist was and why.

	Computing: 2 Simulate
	2Simulate
ileo out	Can you work through this simulation on Purple mash to save the Space mission? You need to read each step carefully and make the correct decisions when faced with different choices.
2	This has been set as a 2Do for you on Purple Mash.
nd a	
<u>:†</u>	
n ain to	

Science: Why do we have seasons?



In the UK we experience 4 seasons each year but why is it hotter in summer and colder in winter? Some people think it's because The Earth is closer to The Sun in summer but this is not the reason. As our planet orbits around The Sun it is tilted on it's axis and this is what causes our planet to have seasons. You can read more about why we have seasons <u>here</u> and watch a video from Terrific Scientific <u>here</u> When you have finished your research complete the seasons sheet to explain what happens (full size underneath).

DT/ Outdoor Learning	English: Vocabulary	English: Writing	British Values/Global Learning
Create your own sun dial.	Choose 5 spelling words from the Y5/6	Recap your understanding of VE day and what makes	Discuss - Should one country own
	Statutory Spelling List.	it so important. Use <u>BBC bitesize</u> to explore the	planets in our solar system?
Sundials are the oldest known instruments for telling	 Write 3 synonyms for each word 	history behind it.	
ime. The surface of a sundial has markings for each	- Write the word in a sentence.		As a result of the Space race in
our of daylight. As the Sun moves across the sky,	- Write a definition for the word.	Imagine you are a British citizen during WW2 and	the 60's between America and
nother part of the sundial casts a shadow on these		you hear the news that the war is ended. How would	Russia the USA was the first
harkings. The position of the shadow shows what time t is.	E.g. Mischievous	you feel during VE day? What would you want to do to celebrate?	country to reach The Moon and plant it's flag there.
	Synonyms – naughty, disobedient,		However, The 1967 Outer Space
Ise the sundial activity sheet below to create your own	misbehaving	Write a diary entry for VE day considering the	Treaty states that no nation can
undial. Take pictures of your findings and upload them	misbendving	thoughts and feelings for your character. Include	'own' the moon.
o teams!	Adam was up to his mischievous tricks	the features of a diary entry:	
	•		What do you think? Should
	again.	- Past tense (Write if you have already celebrated	America have a greater share of
	Mischieurus Dahauing in a way an	and VE day has taken place)	The Moon because it got there
	Mischievous – Behaving in a way, or	- First person pronouns (I, we, my)	first? Or should The Moon be
	describing behaviour, that is slightly bad but is not intended to cause serious harm or damage. Complete the Grammar Vocabulary Quiz on Purple Mash	- Describe the writer's point of view through	shared by all countries of the
		description (alliteration, simile, metaphor,	world?
		personification)	
5		- Include opinions as well as facts	What about future discoveries in
		- Organise events into paragraphs	Space?
			For example: If precious minerals
		WUSEIT 12 May 145	and metals were discovered on
and the second sec		a new strategy	Mars in the future should these be
		This pad with her shi may her withdraw Johnson the discussion of the state of the shi was	shared equally amongst all
		the state of the second of a second of the s	countries on Earth or only betwee
		the de third and and the	the countries that invested money
	abc🦰 abc🦰	has not and faceholder the	to make the mission there
		lited the official set of the	possible?
	Y 5 Y 6	till file capitalise in mare the second of t	hossinie
	Grammar Vocab Grammar Vocab	there will be derived and the start of the factor and file	
	Quiz 5 Quiz 6	to the tempore to prove to the the that they the they the they the they the the the they the	Write a paragraph arguing for or
		I al here to be a first the the the the	against ownership of planets in ou
			solar system

solar system.

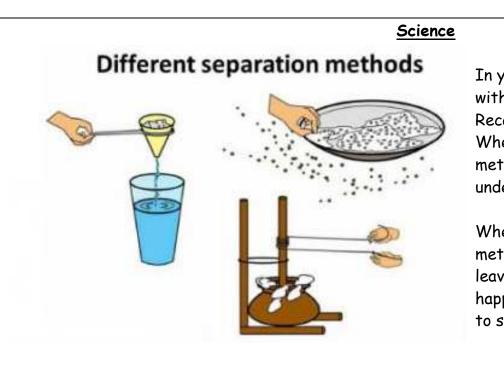
History/Art

Think back to our WW2 topic and how propaganda was used to influence people. Watch the following video <u>here</u>. This short film explains how people were persuaded to join the war effort, and the importance of motivational campaigns.

Create your own motivational posters to galvanize others to join the NHS volunteers to support vulnerable people during the current pandemic. Remember to consider the colours you use, the message you want to portray and the poster must be able to be seen from a safe 2metre distance.







Geography

Recap on our previous learning of the rainforests by checking out the following information here.

Once you have read all the information (makes notes if you wish in your workbook) then complete the online guiz by clicking here.

How many did you get out of 10? Send your teacher your scores so we can see how well you do.

Website links mentioned above:

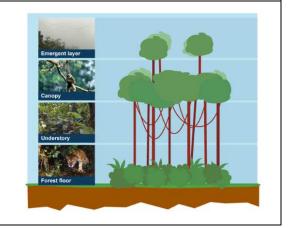
https://commons.wikimedia.org/wiki/File:Sonne_Zeitraffer_-_Sun_Time_Lapse_3840x2160p_24FPS_CC_(Royalty_Free)_(Kostenlos)_10bit.webm - Science Day and Night time lapse video https://www.bbc.co.uk/bitesize/clips/zrd9wmn - Science Day and Night BBC video

https://www.youtube.com/watch?v=hPa7bu1q7D4 - Science Day and Night video

- https://www.sciencekids.co.nz/sciencefacts/scientists/nicolauscopernicus.html Copernicus research
- https://www.famousscientists.org/nicolaus-copernicus/ Copernicus research
- https://www.bbc.co.uk/bitesize/clips/z6shfq8 Greatest scientist debate
- https://spaceplace.nasa.gov/seasons/en/- science why do we have seasons information
- https://www.bbc.co.uk/programmes/p04wf449 science video to explain why we have seasons
- https://www.bbc.co.uk/bitesize/topics/zvsfr82/articles/zd4rmfr Geography latitude and longitude video
- https://www.bbc.co.uk/bitesize/clips/zb9c87h separating materials science sticky knowledge
- https://www.bbc.co.uk/bitesize/topics/zcvv4wx/articles/zw7tv9q separating materials science sticky knowledge BBC Bitesize
- https://cdn.oxfordowl.co.uk/2019/08/29/13/56/09/5a42eb6a-f57f-4dc4-a66e-bd4c5e27e4b7/SpellingWordList_Y5-6.pdf Y5/6 Spelling List
- https://www.bbc.co.uk/teach/class-clips-video/history-ks2-ve-day/z7xtmfr BBC Bitesize VE Day History
- https://www.bbc.co.uk/teach/class-clips-video/history-ks2-how-propaganda-was-used-during-world-war-two/zr77wty Propaganda posters
- https://www.bbc.co.uk/bitesize/guides/zpmnb9g/revision/1 Rainforest revision and guiz

In your previous science topic you experimented with mixing and separating different materials. Recap on the different methods here and here. When you have remembered the different methods complete the separating mixtures sheet underneath.

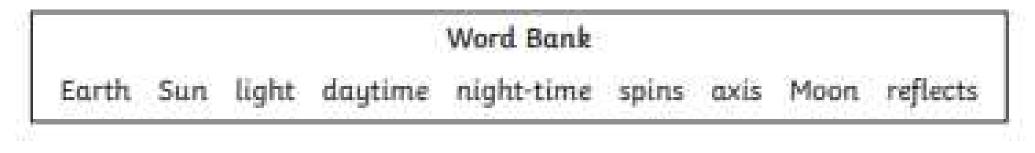
When you are finished you could try some of the methods at home e.g. dissolve salt in water and leave it for a few days in a warm place. What happened? Can you explain the scientific process to someone else?



https://www.bbc.co.uk/teach/class-clips-video/science-ks2-the-work-of-nicolaus-copernicus/z64skmn - Copernicus video

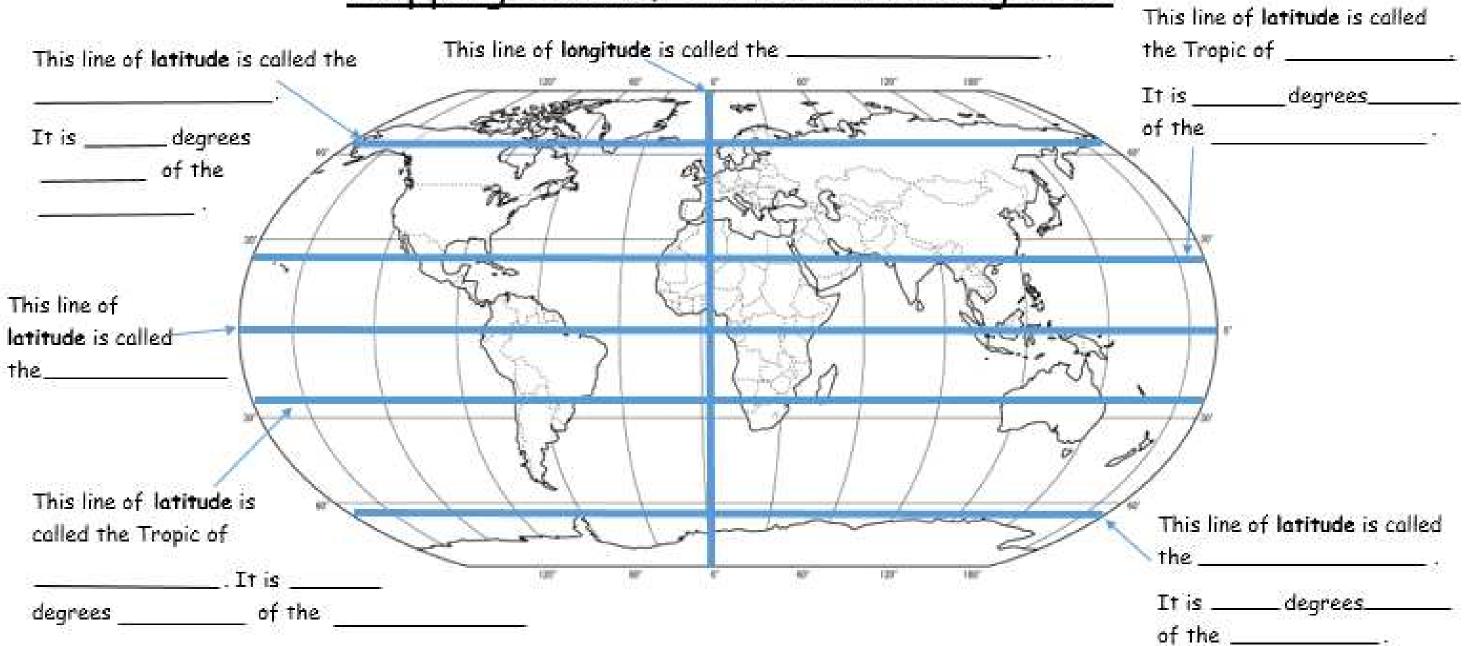


- 1. Label the Earth, Sun and Moon on the picture.
- 2. Can you explain why we have daytime and night-time?



Colour in the picture to show which part of the Earth is in daytime and which part is in night-time.

Mapping lines of latitude and longitude



Extension questions to research

- 1) Can you explain what the International Date Line is? Where would you find it on the map?
- 2) In as much detail as you can explain why the Prime Meridian is in Greenwich, England.

Nicolaus Copernicus Fact File

Full name: Date of Birth: Place of Birth: Famous for:	

Who was Nicolaus Copernicus?

Key events during Nicolaus Copernicus' life:

Interesting facts about Nicolaus Copernicus:





Separating Mixtures

Draw a line from the process to its correct description.

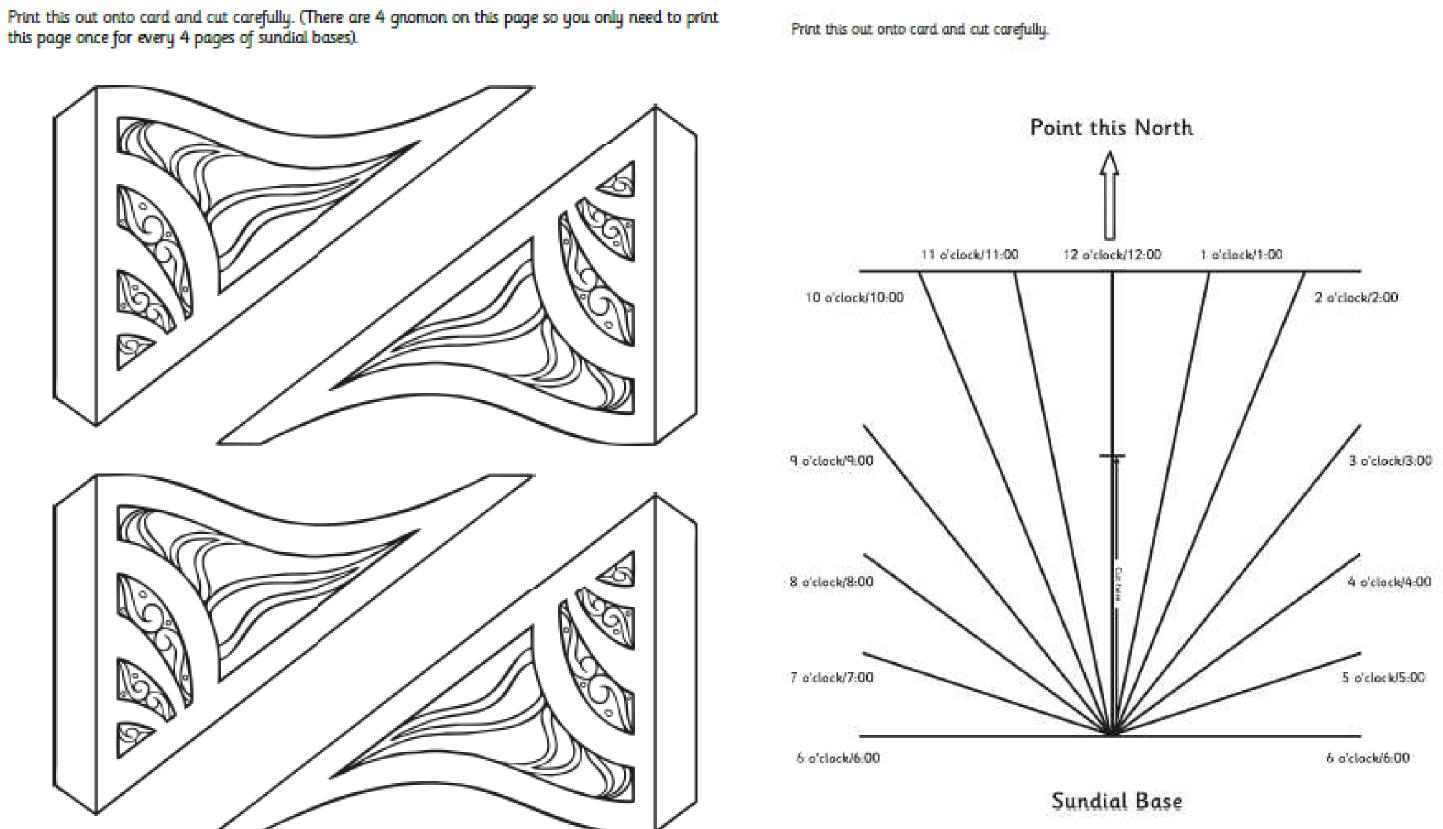
Evaporating and Condensing	Separates insoluble solids from liquids
Decanting	Separates two liquids which have different 'weights'
Magnetism	Separates different sized solids
Filtering	Separates soluble solids from liquids
Sieving	Separates iron and steel from non=magnetic materials

Mixture	Process
salt + water	
sugar + water	
rice + pasta shapes	
sand + water	
flour + rice	
paperclips + sawdust	

The Seasons

 The change in seasons is caused by t 	the in the Earth's
2. The two halves of the Earth are call	ed the North and South
Britain is in the	_ hemisphere.
3. Because of the tilt, one	points towards the sun and one points away. It is
summer in the hemisphere that points _	the sun. It is winter in the hemisphere
that points from	n the sun.
a. On the diagram above, label the N	SUN
South Hemisphere and the Equato	
b. In which hemisphere is it Summer'	?
c. In which hemisphere is it winter?	







Endangered Species: The African elephant

By Gale, Cengage Learning, adapted by Newsela staff on 01.16.18 Word Count 551

Level 530L



Image 1. An African elephant in South Africa's Kruger National Park. The African elephant is the world's largest land animal. Photo by: Frédéric Soltan/Corbis via Getty Images.

The African elephant is the world's largest living land animal. An average male stands more than 10 feet tall. It weighs between 11,000 and 14,000 pounds. That is as much as several cars! A female African elephant is a little shorter. It weighs between 8,000 and 10,000 pounds.

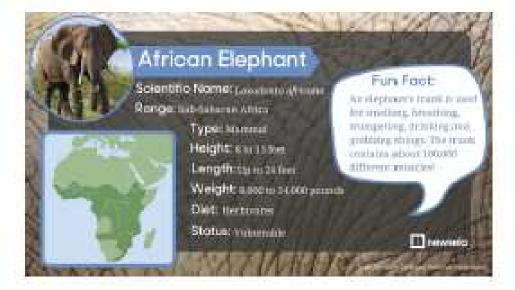
The animal's thick, loose skin is dark gray. It has long white tusks. These are actually teeth. The African elephant has a long lifespan. It can live up to 70 years.

Apart from its tusks, the African elephant has another special feature: its trunk. The elephant's trunk grows out of its nose and upper lip. The animal uses it for many things. It uses it to drink, smell, breathe and feel. The elephant also uses its trunk to communicate. It can use the trunk to greet and signal to other elephants.

African elephants are herbivores. That means they mainly eat plants. They munch on tree bark, leaves, fruits and grasses. The elephants eat about 300 to 400 pounds of food a day! They drink about 50 gallons of water. African elephants are never far from a source of water. They use it for drinking, bathing and cooling.

Elephants are social animals. They like to be around each other. Family units are made up of females and their young. These groups are known as herds. The entire herd is led by an older female. She is called the matriarch. All of the other members of the herd are related to her.

Older male elephants may live by themselves. Or, they may live with other males in small groups. They meet up with females only to mate. A female gives birth to a



single calf at a time. The baby lives closely with its mother for several years.

Habitat

African elephants cover a huge territory. They are found in most areas of Africa south of the Sahara Desert. Some live in forest areas. Others live in grasslands.

There are about 500,000 elephants in Africa today. This may sound like a big number. But the elephant population is much smaller than it used to be. There were once as many as 3 to 5 million elephants in Africa.

History And Conservation

African elephants face several dangers today. One is loss of land. People are building on the land where elephants like to live. This pushes the animals out.

Another threat is poaching, or illegal hunting. For many years people have hunted African elephants for their tusks. Tusks are made of ivory. This material has been used to make many things, from jewelry to piano keys. Today, it is against the law to sell ivory. That is because of an agreement between many countries.



They knew the sale of ivory was putting elephants at risk. So they came together to stop it.

Several African countries have taken steps to protect elephants. They have set aside land for the animals. These protected areas are called reserves. Tourists like to visit these places. They can see elephants in their natural setting.

Many efforts to protect elephants have been successful. However, poaching is still a problem. The African elephant is still at risk today.

Reading

Read the article carefully.

Answer the multiple-choice questions at the end of the reading.

Use this space to write a multiple-choice question of your own.

Writing

Write a persuasive paragraph about protecting elephants. It will be printed in a Wildlife magazine aimed at 9-14 year olds.

Around 15-20 lines

- Use language that persuades the reader to protect elephants
- Give 3-4 different ideas on the problem

lesson:

questions)

Writing - 45 minutes

Grammar - 5 minutes

Spelling - 10 minutes

How parents, carers or siblings can help:

- Read the extract aloud with you.

- Gather all the exciting and difficult words you want to find out about or use in your writing and put them on display to support your amazing writing.

- Help with ideas for planning your writing.

- Write a story at the same time as you. You could then compare your stories and give each other feedback. (Remember: Be Kind, Be Specific, Be Helpful)

Below are some suggested timings for each

Reading: 30 minutes (this includes time to re-read, look up unknown words and ask

Grammar

Circle the three determiners in this sentence. William didn't have any cereal in the house, so he went out to buy some cornflakes.

Insert a comma in the correct place in this sentence. Although he was the youngest Tom was one of the tallest.

Complete the sentence with a noun formed from the verb *invent*.

The engineer thought her latest _____ would solve the problem.

Circle the co-ordinating conjunction in the sentence below. If you want to enter the competition, you can send your idea by email or by post.

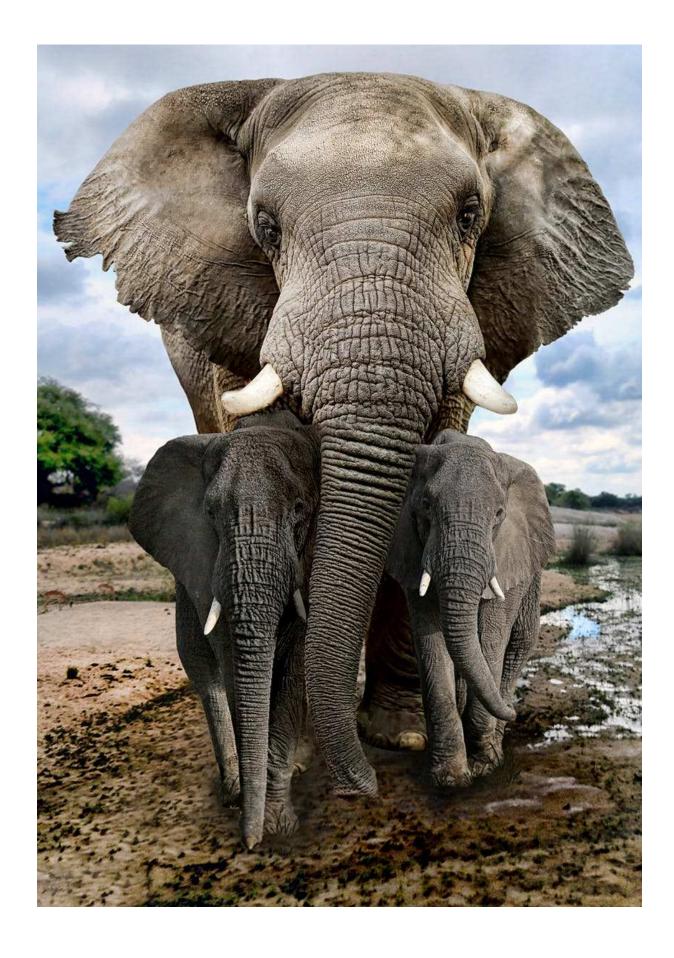
Rewrite the sentence as direct speech: I asked her if she needed any help.

I asked, ____

Spelling

Practise each word. Choose two and write their definitions. Choose two to write in sentences.

dictionary embarrass equip (-ped, -ment) exaggerate existence disastrous environment especially excellent explanation



Quiz

1 The article states that elephants are social animals.

How does being a social animal help elephants survive?

- (A) The family units can help protect the young.
- (B) More food will be needed to feed the herd.
- (C) Elephants living alone can outrun predators.
- (D) A female gives birth to one baby at a time.
- Finish the sentence below.

One MAIN idea of the article is that:

- (A) There are fewer African elephants today than in the past.
- (B) African elephants can weigh as much as several cars.
- (C) There are African elephants that live to be 70 years old.
- (D) African elephants eat 300 to 400 pounds of food a day.

Elephants in a herd will be different from each other.

Based on information in the article, what is an example of how the elephants would be different?

- (A) Some elephants will have a trunk and some will not.
- (B) Some elephants will be larger than other elephants.
- (C) Some elephants will eat plants and others will eat animals.
- (D) Some elephants will be dark gray and others will be brown.

3

Read the list of sentences from the article. 4

- People are building on the land where elephants like to live.
- 2. For many years people have hunted African elephants for their tusks.
- 3. However, poaching is still a problem.

What MAIN idea do these details support?

- (A) Tusks are used to make piano keys.
- (B) African elephants face many dangers.
- (C) The preserves help African elephants.
- (D) People like to see African elephants.

Which of these animals has the most in common with elephants?

- (A) Sea turtles lay more than 100 eggs in the sand. The mother does not stay with the babies.
- (B) Gray wolves give birth to 5 to 7 puppies at a time. The babies stay with the mother for 1 or 2 years.
- (C) Mallard ducks lay around 12 eggs in a nest. After they hatch, the babies stay with the mother for 2 months.
- Blue whales give birth to one whale at a time. The baby stays with the mother over a year. (D)



Look at Image 3.

Based on the image, what do elephants use to get their food?

- (A) tusks
- (B) lips
- (C) trunks
- (D) ears

Some African elephants never grow tusks. They now live longer than elephants with tusks. Why would tuskless elephants live longer?

- (A) Tuskless elephants are the matriarch females.
- (B) Hunters would not kill elephants without tusks.
- (C) It is easier for tuskless elephants to eat grasses.
- (D) Elephants with tusks cannot communicate.

Read the introduction [paragraphs 1-6].

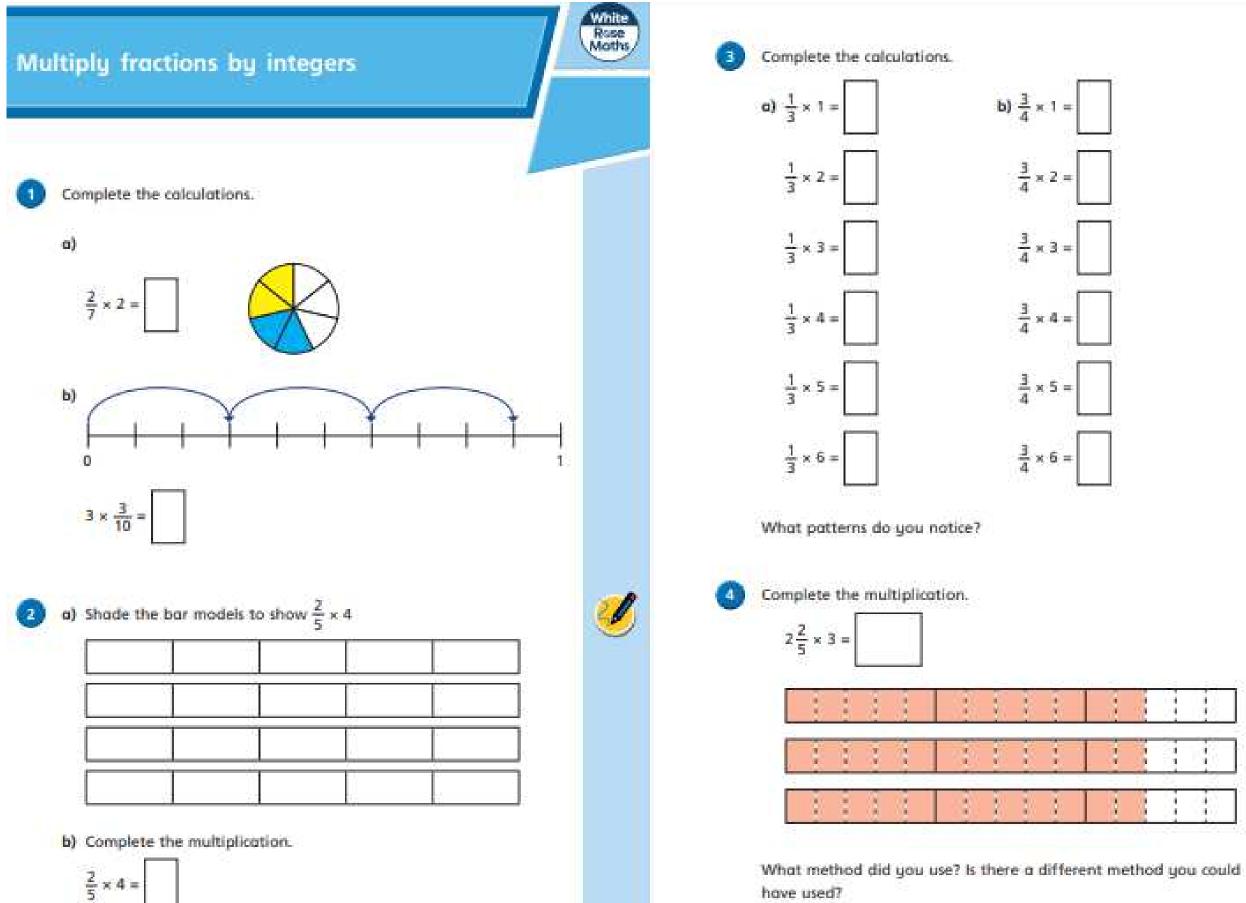
What does Image 2 in that section show about African elephants?

- (A) how fast they are
- (B) what they do for fun
- (C) how many are left
- (D) how big they are

6

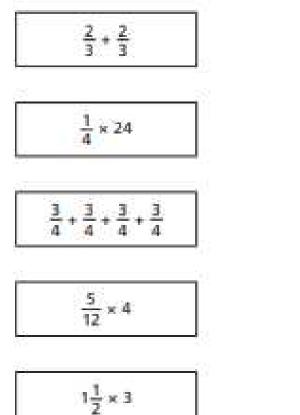
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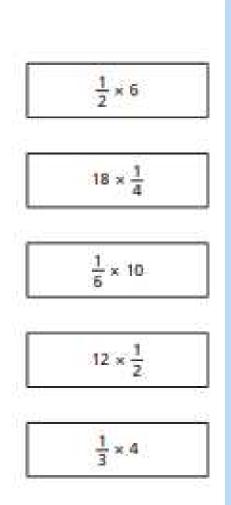
Year 6 Home Learning - Maths: Multiply fractions by integers - Monday 11th May 2020 Please watch the video first: <u>https://whiterosemaths.com/homelearning/year-6/</u>



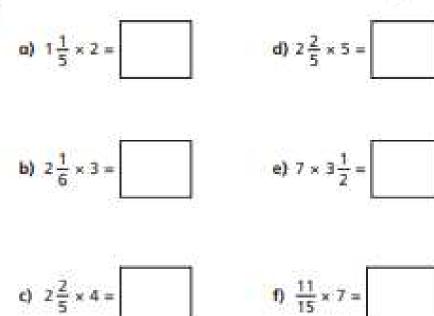


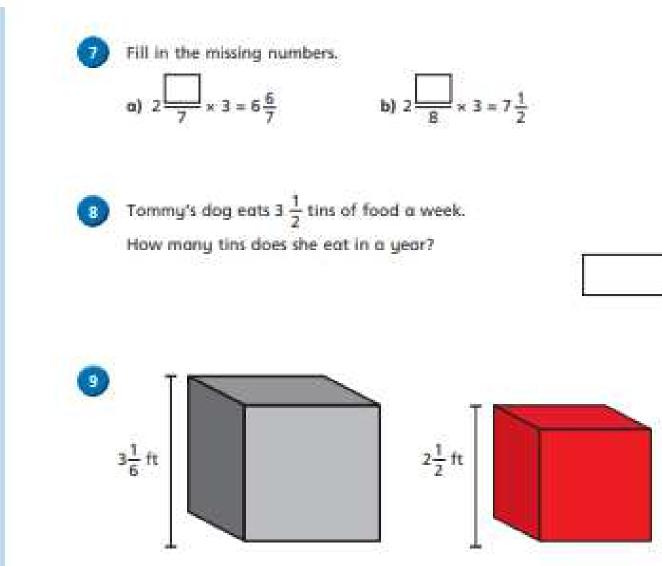
Match the calculations.





Write each answer as a mixed number in its simplest form.

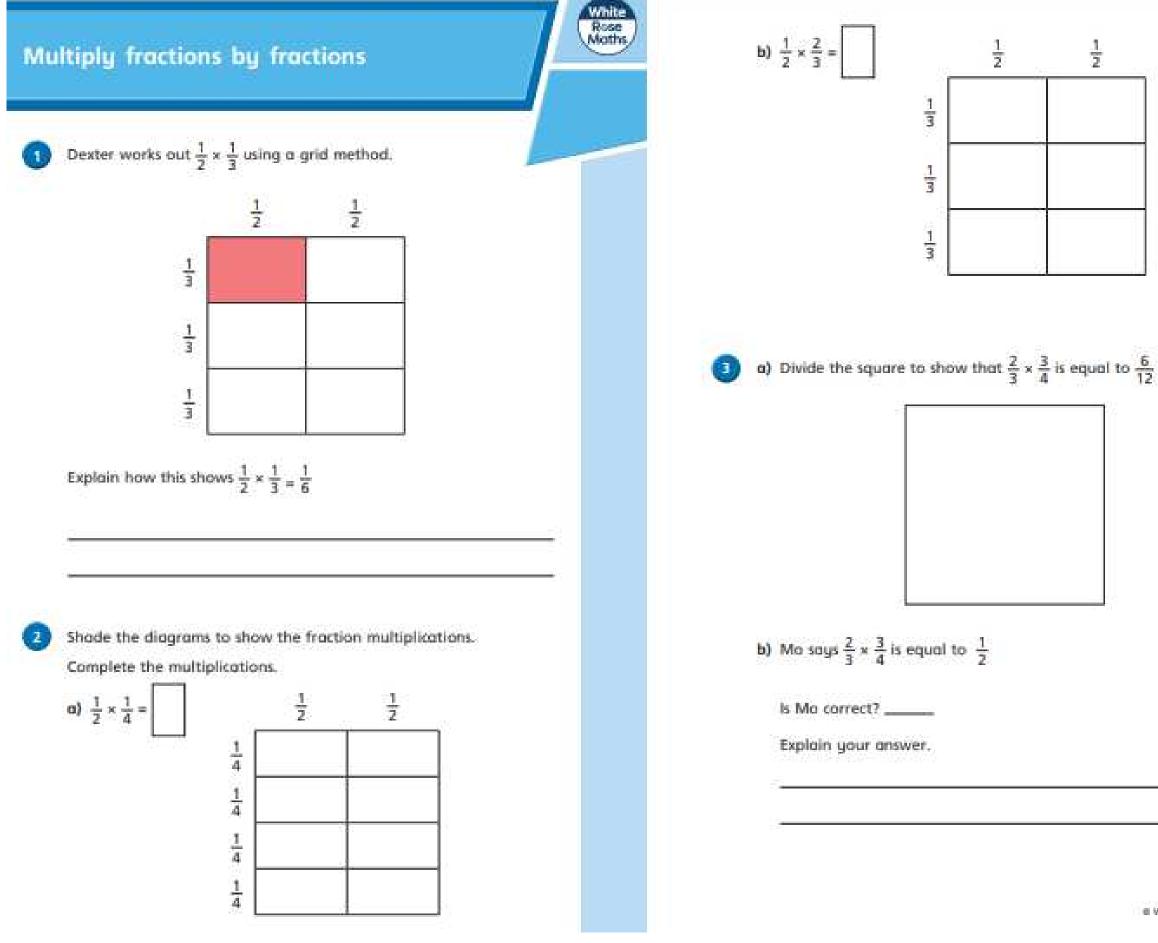


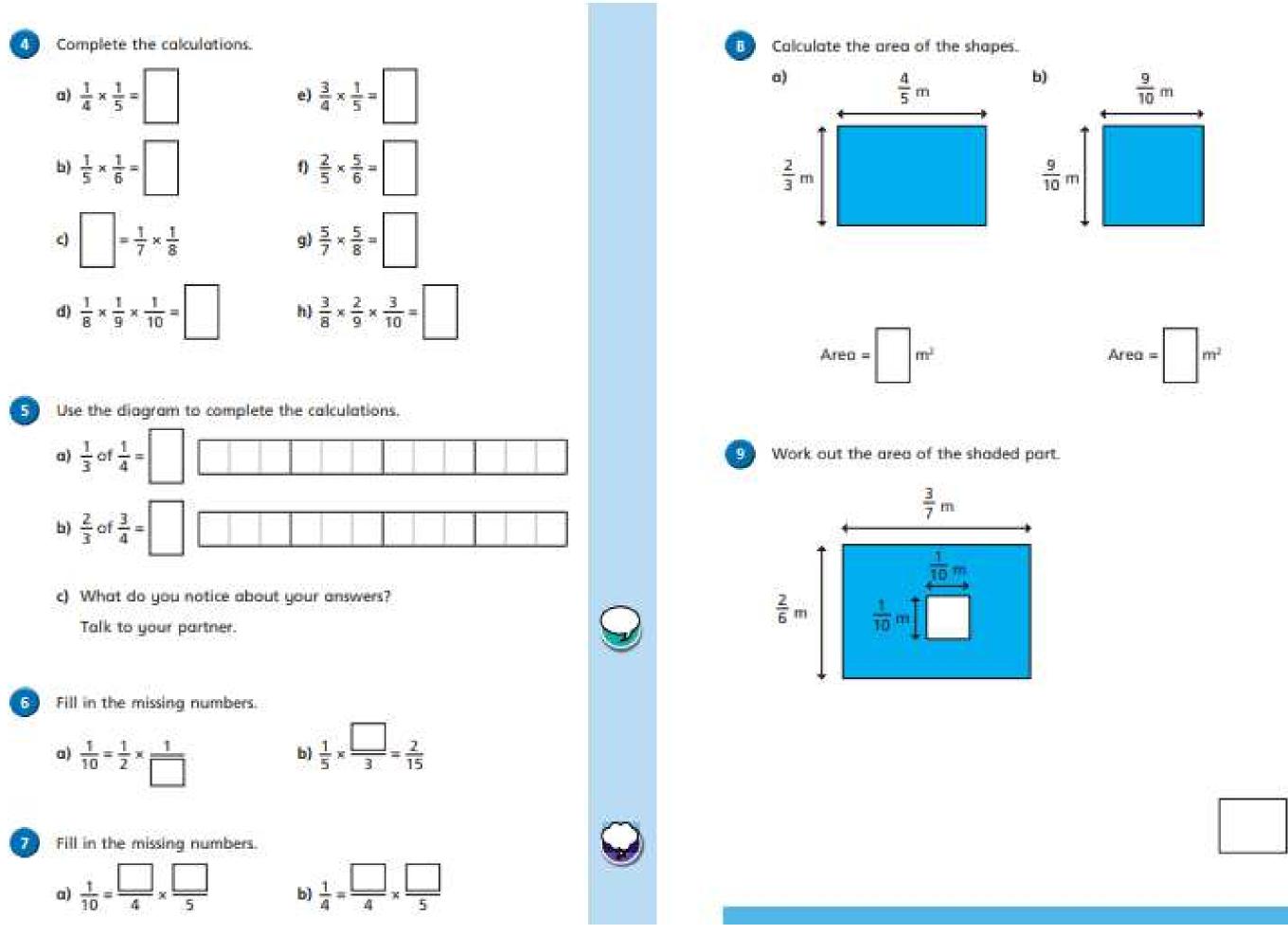


Jack builds a tower using grey blocks. Alex builds a tower using red blocks. The towers are exactly the same height. How many blocks could they each have used?

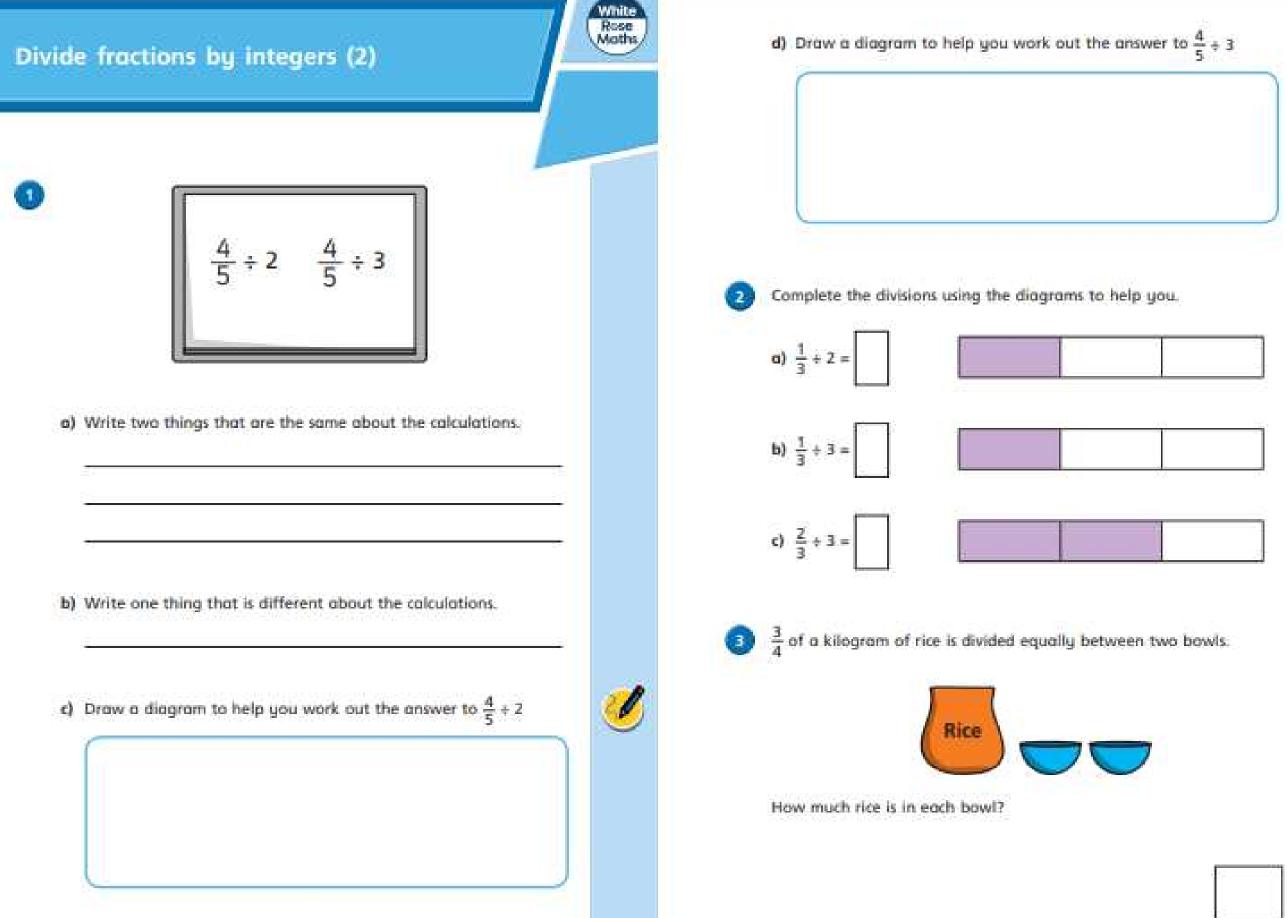


Year 6 Home Learning - Maths: Multiply fractions by fractions - Tuesday 12th May 2020 Please watch the video first: <u>https://whiterosemaths.com/homelearning/year-6/</u>





Year 6 Home Learning - Maths: Divide fractions by integers - Wednesday 13th May 2020 Please watch the video first: <u>https://whiterosemaths.com/homelearning/year-6/</u>



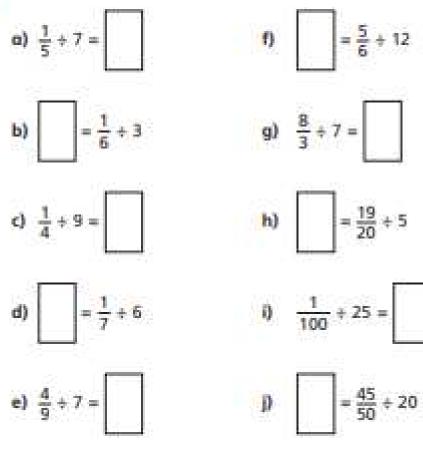
1	

2 C	3.4	1.00
	- 50	_

the second s	



Work out the divisions.



5

Write <, > or = to complete each statement.

a)
$$\frac{1}{3} + 5$$
 $\bigcirc \frac{1}{5} + 3$
b) $\frac{1}{3} + 3$ $\bigcirc \frac{1}{5} + 5$

c)
$$\frac{3}{5} + 5$$
 (3) $\frac{3}{5} + 3$

There are some cones in the PE shed. Classes 1, 2 and 3 share them equally.

6

7

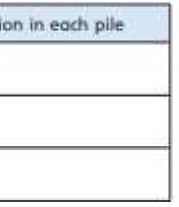
- · Class 1 put theirs into 4 equal piles.
- Class 2 put theirs into 5 equal piles.

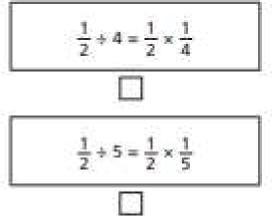
 Class 3 put theirs into 11 equal piles. What fraction of the whole number of cones is in each pile?

U		Fracti
	Closs 1	
	Class 2	
	Class 3	
1000		

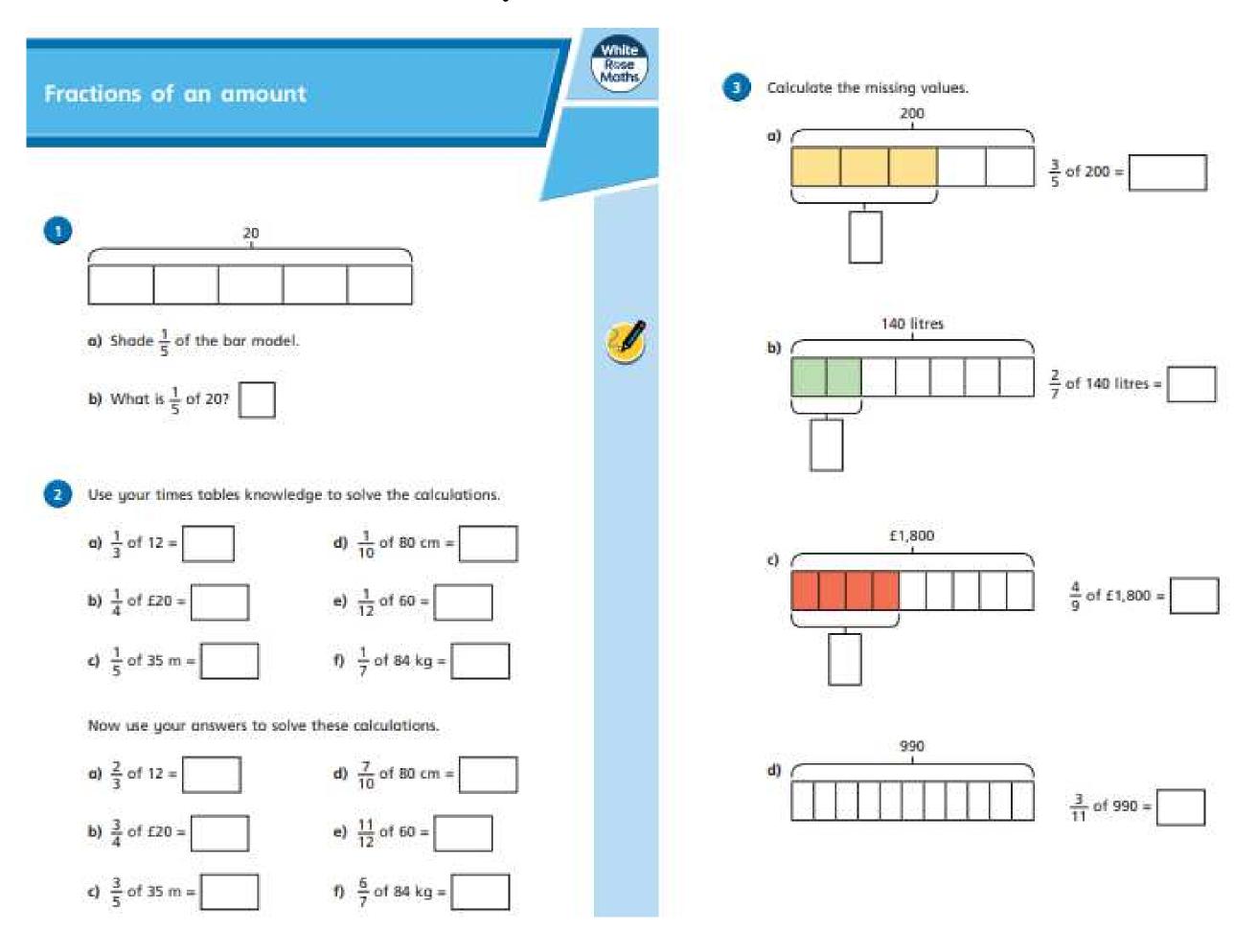
a) Which of these statements are true? Tick your answers. $\frac{1}{2}$ ÷ 2 is equal to $\frac{1}{2} \times \frac{1}{2}$ $\frac{1}{2} \div 3 = \frac{1}{2} \times \frac{1}{3}$

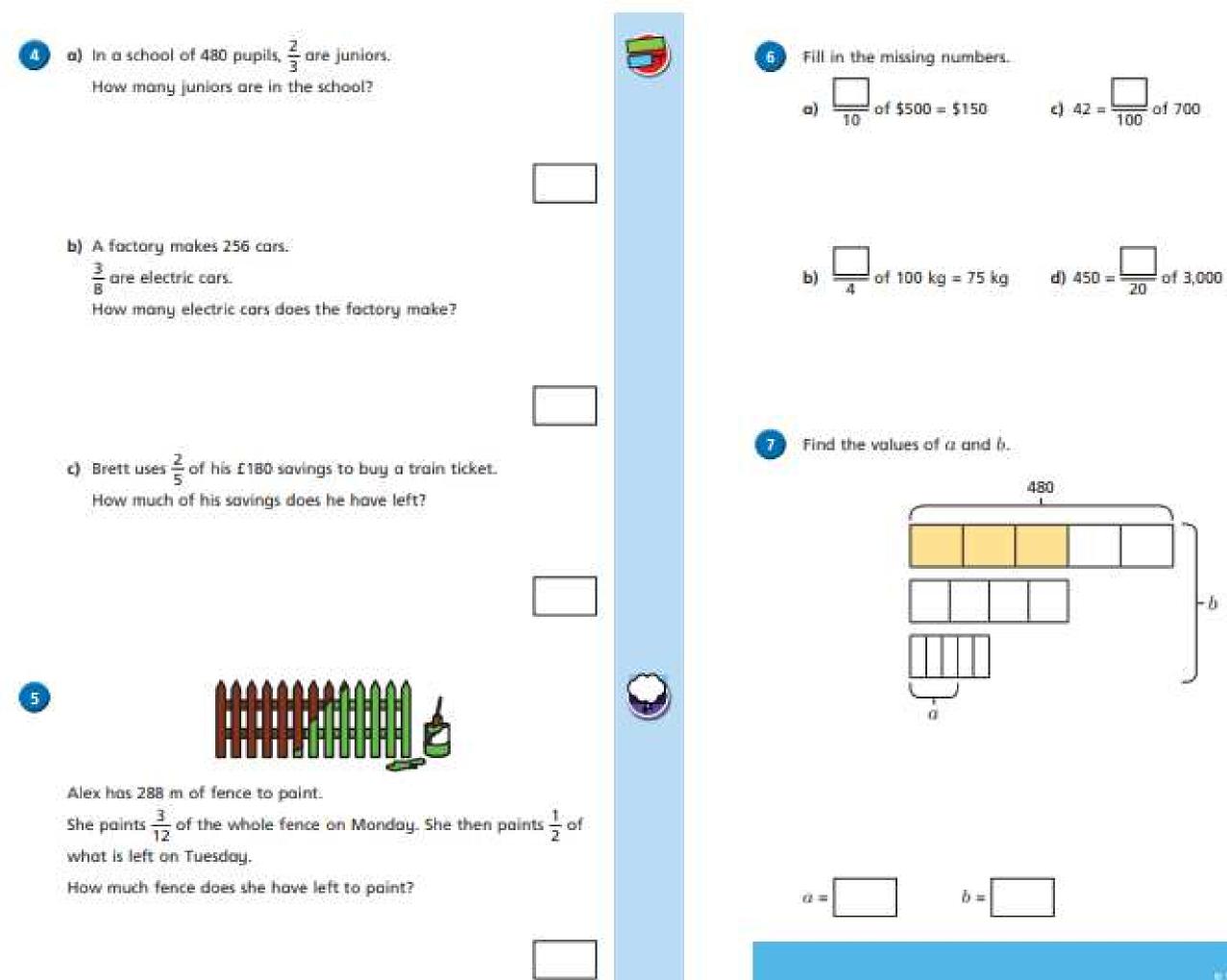
b) What do you notice? Is it only true for halves? Does it work for non-unit fractions? Talk to a partner.





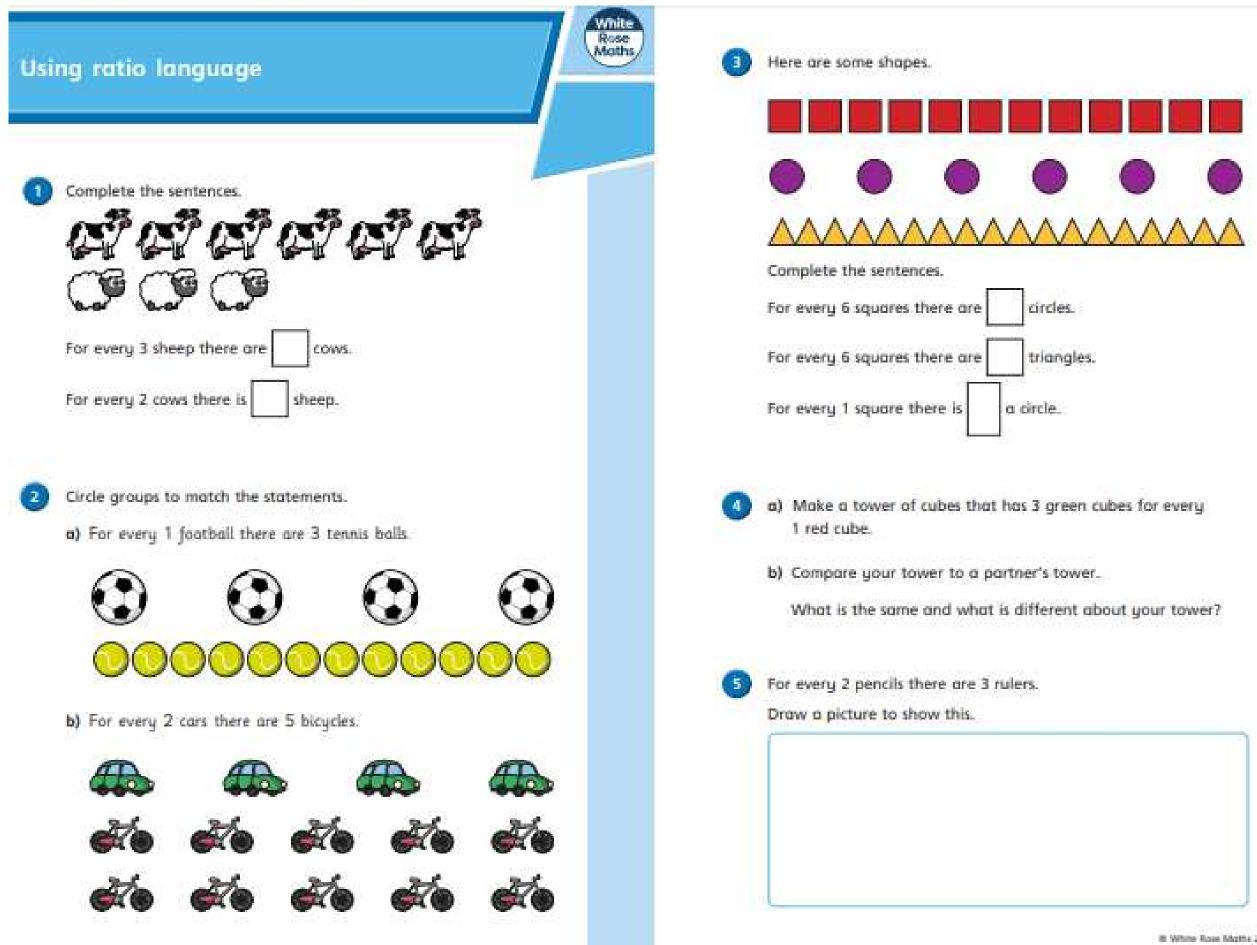
Year 6 Home Learning - Maths: Fractions of an amount - Thursday 14th May 2020 Please watch the video first: <u>https://whiterosemaths.com/homelearning/year-6/</u>





O Millio Roos Malto 2015

Year 6 Home Learning - Maths recap: Using ratio language - Friday 15th May 2020



III White Rose Months 2019

