Home Learning Week Commencing 6th July 2020

Maths - Shape

Day 1)

Investigating circle relationships

Sheet 1

Some children have been drawing and measuring circles.

They measured the radius and diameter with a ruler, then the circumference as accurately as possible with a piece of string.

They recorded their measurements in the table below.

Kayleigh makes a good generalisation, saying, "The circumference of the circles always gets bigger as the diameter gets bigger."

Jay has also spotted something interesting, saying, "The circumference of the circle with a diameter of 10cm was almost exactly 30cm – that's neat because 30 is 3 times 10."

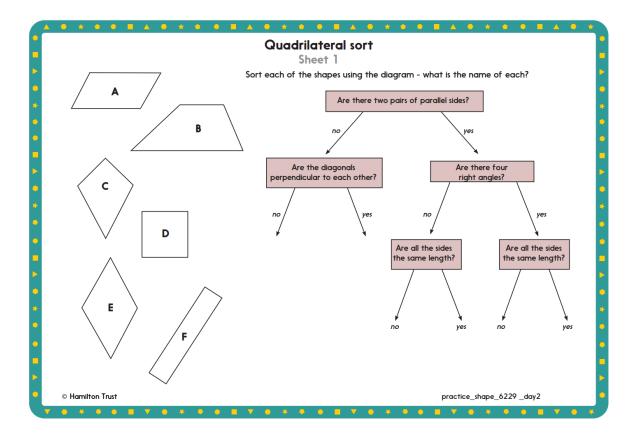
Was Jay's observation just a coincidence or is there a pattern here? Investigate the ratio of the circumference of each circle to its diameter, filling in the last column of the table. You can use a calculator - divide the circumference by the diameter to give an accurate ratio.

Circle radius (cm)	Diameter (cm)	Circumference (cm)	Ratio of circumference: diameter
3	6	19.2	
3.9	7.8	22.9	
6.5	13	40.5	
2.3	4.6	14.5	
5	10	30.1	
8.4	16.8	53.7	
7.5	15	47.8	
3.5	7	22.0	

Use this space to tell Jay whether he's really onto something, or if his observation was a coincidence after all:

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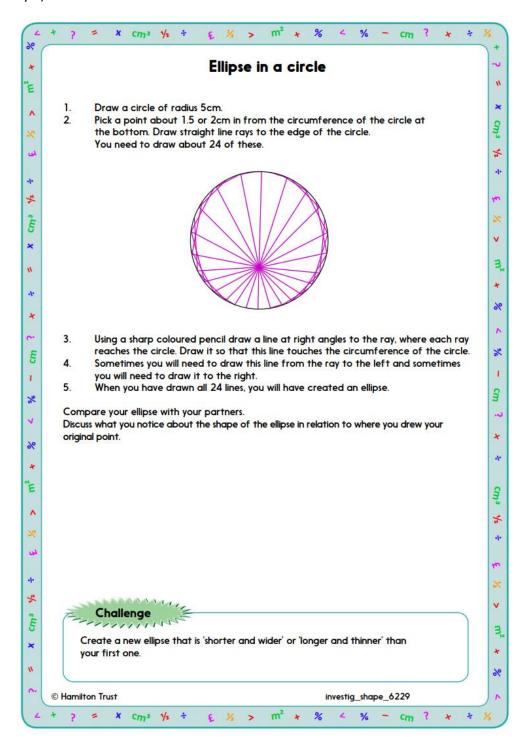
Shape Unit 1 O Problem solving and reasoning questions

Draw a circle	and label the radius and diameter.
Explain how	you could find the diameter.

Use damp string to measure the circumference of a small plate. Now measure its diameter and calculate the circumference. How close was your damp string measurement?

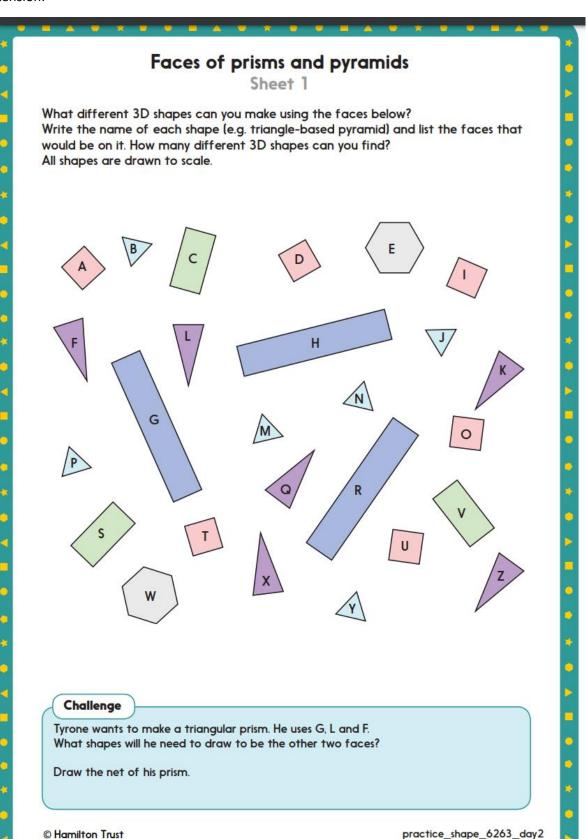
Mystery quadrilaterals

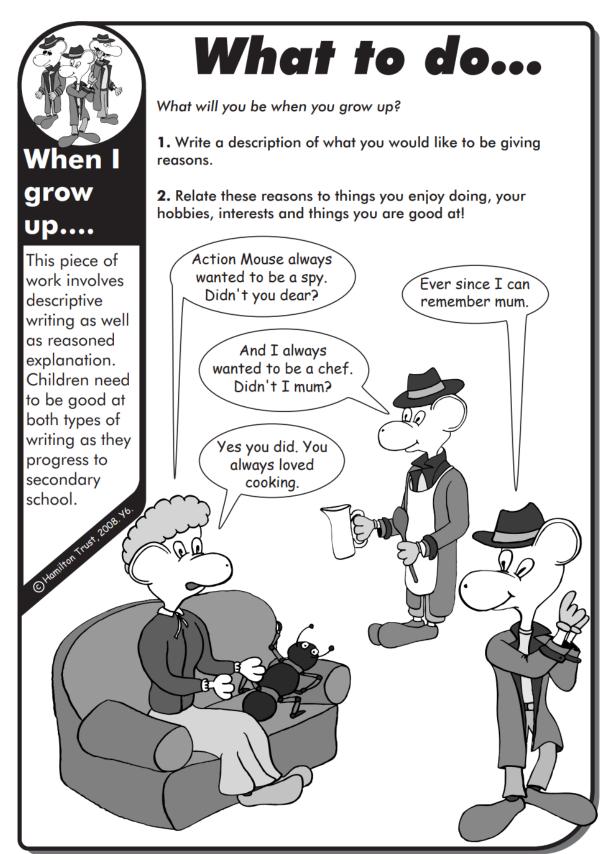
- I have one pair of non-equal parallel sides. What am I?
- I have two pairs of equal sides, but no sides are parallel. Two opposite angles are equal but not the other two. What am I?



All about the cubes Sheet 1 1. Which of these would make an open cube (a cube with no 'top')? 2. Here are some nets of cubes that have one face shaded black. When folded back into a cube, which four faces will be adjacent to the shaded face? Shade them. The first one has been done for you. Did you discover a pattern or rule that helped? 3. Here are some shapes describing themselves. Which one is the cube? a. I have 4 vertices, 6 edges and 4 faces. b. I have 12 vertices, 18 edges and 8 faces. c. I have 6 vertices, 12 edges and 8 faces. d. I have 8 vertices, 12 edges and 6 faces. 4. Here are some more shapes describing themselves. Which one is **not** a cube? What shape is it? a. Each corner of each of my faces is a right angle. b. I have 3 pairs of parallel faces. Every point on my surface is an equal distance from my centre. d. I am a regular polyhedron with 6 faces. Challenge Can you make up some more puzzles like these about cubes? © Hamilton Trust practice_shape_6263_day1

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SPaG Exercises: Apostrophes Objective 1: To identify apostrophes used to show contraction and possession



Put a tick to show whether the apostrophe in each sentence is used for **contraction** or **possession**.

	Apostrophe	Apostrophe
	for contraction	for possession
1. This is our island's best music.		
2 You wouldn't hear it anywhere else.		
3. I don't want it to ever stop.		
4. What is that singer's name?		
5. She's got such a beautiful voice.		
6. I'm going to cry.		
7. Watch the dancer's feet carefully.		
8. They'll spell out a word in the dust.		
9. Can't you read what it says?		
10. Who'd like some juice?		
11. It's our favourite drink.		
12. Not that one. That is Amir's.		
13. You've drunk my juice!		
14. Magda has drunk a week's supply of juice.		
15. She'll be needing a wee soon.		
16. Be careful of old Toby's dog, Magda.		
17. He is the island's fiercest dog.		
18. Luckily, that dog's weakness is music.		
19. If you sing he'll just lie down.		
20. It's actually quite fun this kind of singing.		
21. We're having such a nice day!		
22. I wish we'd stay forever.		
23. Isn't this the best place ever?		
24. And aren't these people the nicest ever?		
25. Why is it called snake's jungle?		
26. Because there're lots of snakes in there.		
27. Is there a people's jungle we could go to?		
28. I'm not sure about this jungle walk.		
29. Darryl's eyes are wide with terror.		
30. Calm down mate, that's only a vine.		

Exercises: Apostrophes – 1C

Apostrophes for Contraction and Possession

Read this extract from the story 'Cole's Kingdom'. Use one of the words from the box below to fill in the gaps. Colour-code the word with apostrophes for possession and the words with apostrophes for contraction. You will need to use some words more than once.

" a bit like a journey to another world, it?" said Cole, craning over his sister, Mara, to catch a glimpse of Grandma house through the trees. " like a window through time"					
"trying to sleep," said Liam, as Dad swung the car round a tight bend, causing the wheels to skid.					
Cole ignored his brother. "I mean, Grandma house must be a hundred years old at least. so crumbly."					
"Nearly three	hundred," Mun	ı corrected.			
"She have a proper TV, either – just that boxy thing, and her phone is stuck to the wall. I mean, it has buttons! like she lives in a museum."					
"Well, tell Grandma that, for sake," said Mum. "hurt her feelings."					
, ,		*	+		
Cole told Grandma Jenny about his friend, Leo, and his birthday party at the trampoline centre that had ended with a trip to A&E and arm in plaster.					
"Cole," said M	um, "	dying of thirs	t out here." She	brought in ano	ther armload
of empty boxes	s from the car,	her face beaded	d with sweat. "S	Stop talking	ear
off. Could you	get us somethi	ng to drink, ple	ase?"		
Jenny's	You'll	goodness'	isn't	Leo's	Grandma's
we're	It's	don't	doesn't	I'm	

Underneath each word in the table, write the longer form for the words that use an apostrophe for **contraction**.





Challenge:

Rewrite these sentences, replacing the longer phrases with contractions.

- 1. "Please do not tell me that I have to listen to any more of your 'music'," Mara moaned.
- 2. "You are welcome, Cole." She smiled in the least friendly way possible.
- 3. "I have got to practise, you know."
- 4. "That is more like it!" Mara grabbed her bag and sprang up the steps to the front door.
- 5. For someone who loved books, she could not stand it when Cole came up with his own unique brand of story.







Captain Tom Moore

Captain Tom Moore is the war **veteran** who made headlines around the world in mid-April 2020, when he pledged to raise money for the National Health Service (NHS), by walking 100 laps around his garden before his 100th birthday on April 30th.

The Challenge

Captain Tom has long been a supporter of the NHS. He had spent some time in hospital after a hip replacement a few years ago and has been following the news about the NHS, as they battle to treat patients during the COVID-19 crisis. He decided to set himself the challenge of completing 100 laps of his 25 metre garden, by walking 10 laps each day, with the help of his walking frame and finishing before his 100th birthday. Captain Tom hoped to raise £1000 for NHS Charities Together.



Worldwide Support

Captain Tom's challenge was reported by his local news and word soon spread about his amazing effort. People very quickly took Captain Tom to their hearts and his story was shared more widely, including on the national

news. As more people heard about his challenge, they donated money to the cause. Within a day, Captain Tom had exceeded his target.

Captain Tom completed 100 laps (his last ten, with a **guard of honour**) two weeks before his birthday, so decided to increase the number of laps he walked to 200.

Fundraiser and Record Breaker

To help celebrate reaching 100 laps, singer Michael Ball, the NHS Voices of Care Choir and Captain Tom released a version of the song 'You'll Never Walk Alone', which went straight to number one in the singles charts. Captain Tom (aged 99 at the time) is the oldest person ever to reach number one and the single is





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the fastest selling of 2020 so far. Every single sold raises more money for the charity. Captain Tom also holds the record for the largest amount of money raised on a charity walk, by an individual. The money will be used to fund community groups that help support patients when they have left hospital, as well as wellbeing packs for NHS workers.

Biography

Thomas Moore was born in Yorkshire on 30th April 1920.

As an adult, he joined the army and served as a British Army officer in the Second World War. During his time in the army, Captain Tom was awarded three medals, which he has worn whilst completing his fundraising laps. A short **documentary** has been made about his military career and is due to be televised in early May 2020.

When he was younger, his hobbies included motorcycle racing and he won several competitions.

He currently lives with one of his two daughters and her family in Bedfordshire.

He has had so many birthday cards sent to him from around the world, Royal Mail have had to re-route his post to a special collection box and a group of volunteers have been employed to help open the cards, which will go on display at a local primary school that Captain Tom's grandson attends.

No-one has been more surprised by his success than Captain Tom himself. 'Never in my wildest imagination did I think this would be possible,' he exclaimed.

Captain Tom in Numbers

- £1000 The target amount Captain Tom originally hoped to raise for charity.
- 24 hours The time it took to reach his target.
- £13,000,000 The amount Captain Tom had raised by the time he completed 100 laps.
- 82,000 The number of copies his hit single sold in the first week.
- 100,000 Birthday cards have been sent to him by the public.
- 1.3 million People had donated money to his campaign before the final week of April.









Pride of Britain

Captain Tom has been called a national treasure by the public and was awarded the Pride of Britain Award. This award is given to people who have demonstrated great courage or inspired people with their campaigning. Captain Tom had received several hundred thousand nominations from the public and a judging panel agreed that he was more than worthy of receiving the award.

For his 100th birthday, Captain Tom is being honoured with a special postmark from the Royal Mail. All letters sent during the week of his birthday, will be stamped with a postmark that reads, 'Happy 100th Birthday Captain Thomas Moore NHS fundraising hero 30th April 2020'.

Glossary

veteran An ex-member of the armed forces.

guard of honour A group of soldiers arranged in a row for a

special occasion

documentary A factual television or radio programme.





Captain Tom Moore Questions

CV.	vinkl ***		Page 1 of 2	visit twinkl.com	CARREL TO
_					
_					
6.	Why do you t	hink Captair	n Tom wanted to raise money for the NHS?		
5.	Name one wa	y that Capto	uin Tom has been recognised for his achieve	ments.	
4.	Who collabore	ated with Ca	ptain Tom on the single 'You'll Never Walk	Alone'?	
3. duri		-	d and copy one word that likens the streat of soldiers in a war.	uggle of NHS	staff
	Captain Ton	n celebrated	his 100 th birthday.		
	Captain Ton	n finished hi	s 100 laps.		
	Captain Ton	n released a	single.		
	_	n began his			
2.	Number the ever	nts to show t	he order in which they happened.		
	£13,000,000		The new target of laps Captain Tom set	for himself.	
	100,000		The number of birthday cards sent to Co	aptain Tom.	
	200		The original target set.		
	£1000		The amount raised by 100 lap	is.	
1.	Match the numb	ers to the st	atements.		



Captain Tom Moore Questions

7.	Give two examples of how Captain Tom has broken world records.
8.	Describe Captain Tom in three words and explain your choices.
_	
	How do you think Captain Tom felt when he heard that he had reached his target of 00 in just a day? Explain your answer.
_	
10.	Write a summary of Captain Tom's achievements.





Day 5) Writing



Footsteps could be heard in the distance. Not careful, quiet footsteps, like those someone like you might make as you move about your living room. No. These footsteps were different: they shook the very earth with every colossal stride. He was coming...

Coloured Celery

Science Experiment



Method

- 1. Pour some water into the glass.
- 2. Add a few drops of food colouring to the water and stir to distribute the colour.
- 3. Cut 2cm off the bottom of the celery stalk and put the stalk into the glass of coloured water.
- 4. Leave the glass and celery in a sunny spot for a couple of hours or overnight.
- 5. Observe the results.

You will need:

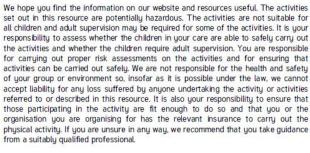
Celery stalk with leaves

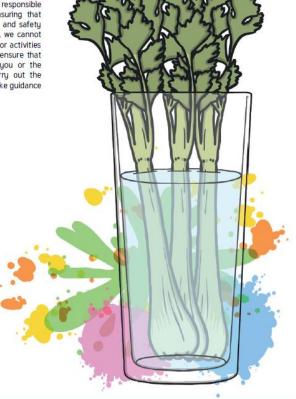
Tall glass

Water

Food colouring

Scissors









Coloured Celery

What colour are the leaves of your celery?

Can you put your celery into the glass of coloured water?

Can you find a sunny spot to put your experiment?

What colour are the leaves of your celery now?

What has made them change colour?

Which parts of the plant use lots of water?

Lesson 16 Themed Learning: Peace, Justice and Strong Institutions



Learning Outcomes:

- To understand the impact that fleeing from a desperate situation would have on someone's life
- To empathise with situations that others find themselves in



The Power of Peace

Activity 1) Holiday Bag or Get-Away Bag?

Imagine you are going on holiday tomorrow, what would you pack? — you have 5 minutes to write a list.

Now your situation has changed... you need to escape from your home tomorrow. You do not know whether or if you will return. Pack a case with the things you would take. Remember you can only pack 1 suitcase and you will be carrying it as you have 5 leave on foot. — you have 5 minutes to write a list.

Compare your lists. What has changed? Why?

Did you think about birth certificates, identification, essential items, etc?

Activity 2) What is Peace?

Write down what you think peace is. Describe what it looks like to you.

If you could draw it, what would it look like?

Activity 3)

Research one of the following people: Karim Wasfi, Leymah Ghowee, Mahatma Gandi, Malala Yousafzai, and Nelson Mandela.

Answer the following:

Who is your peaceful activist?

What was their goal?

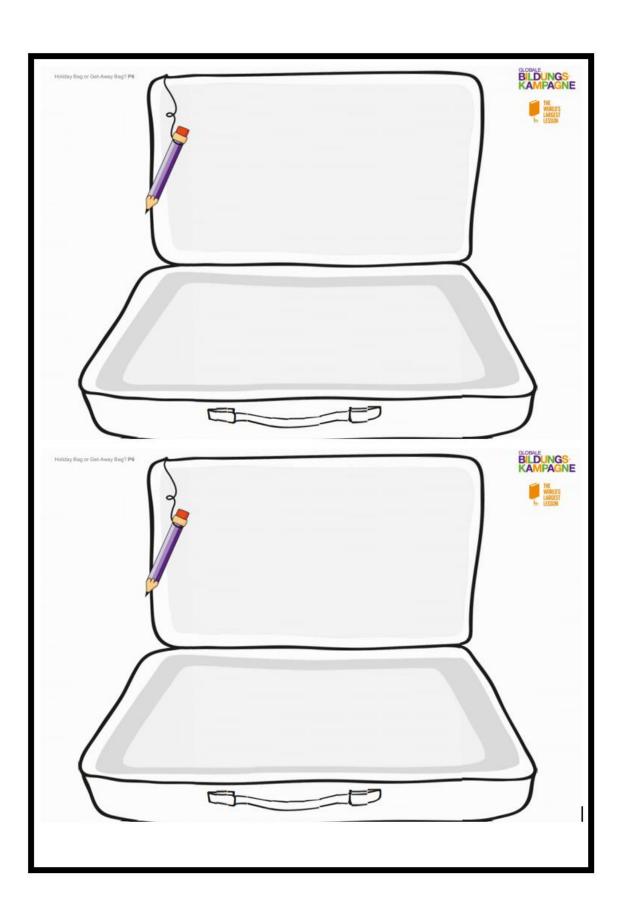
How did they achieve or attempt to achieve their goal?

Why are/were their methods peaceful?

What characteristics did they have?

Activity 4)

How can you contribute to making the world a more peaceful place?



Activity 2) PE

As we have missed sports day this year can you hold you own. Your event should include one (or more) of the following:

- Get outside
- Be active
- Showcase a sporting talent
- Work as a team
- Enjoy participation and competition
- Celebrate each other by cheering on their team

These things can be done on your own or with your family if they are willing.

