



# Holy Name

Catholic Primary School

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"With Jesus as our guide; we love, live and learn together."

## WEEKLY HOMEWORK LETTER

YEAR GROUP	2	NO.	13	DATE:	06.07.20
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Good Morning Year Two,  
I hope you had a lovely week last week. I'm sure you are working super hard at home and it's lovely to see some photos of your home learning tasks that you have been sending in.  
As we are approaching the end of term, I want to say a big well done for all your hard work whilst being at home. Keep going for the last few weeks.  
I cannot wait to see you all in September!  
Keep Smiling!  
Miss Doody

Remember you can now upload pictures of you completing home learning tasks onto the school website that I can see. I would love to see some pictures of you working hard that I can add to our class page.

### Daily Exercise

Start your day with some exercise. Click on the links below to complete your daily exercise/ Yoga/ Meditation.

Monday	Cosmic Yoga Dance Party <a href="https://www.youtube.com/watch?v=23VdtTOvQUY">https://www.youtube.com/watch?v=23VdtTOvQUY</a>
Tuesday	Joe Wicks - <a href="https://www.youtube.com/user/thebodycoach1">https://www.youtube.com/user/thebodycoach1</a>
Wednesday	Just Dance - <a href="https://www.youtube.com/watch?v=HUvCgpUrqp8">https://www.youtube.com/watch?v=HUvCgpUrqp8</a>
Thursday	Oti Mabuse Dance Class- <a href="https://www.youtube.com/watch?v=SboNzLZeaOo">https://www.youtube.com/watch?v=SboNzLZeaOo</a>
Friday	Cosmic Yoga Dance Party- <a href="https://www.youtube.com/watch?v=23VdtTOvQUY">https://www.youtube.com/watch?v=23VdtTOvQUY</a>

# English Timetable

	Today's Activity is . . .	Guidance	Extra Online English Games (Optional)
<b>Monday</b> Activity Sheet 1	Grammar- Using	Today's lesson is a grammar focus lesson. You will be looking at irregular adjectives to compare. Read the sentences carefully deciding which word should go in the missing space. Then try to write some of your own sentences.	Bella and the Farm- Grammar Game Log in to your Purple Mash account and access this on your 2-do list. Hit the Button- Mental Maths <a href="https://www.purplemash.com">https://www.purplemash.com</a>
<b>Tuesday</b> Activity Sheet 2	Anyone Seen My Dragon Poem	Read the poem 'Anyone Seen My Dragon?' Highlight the following things in the poem: <ul style="list-style-type: none"> <li>• Rhyming words</li> <li>• Adjectives to describe the dragon</li> <li>• Any words you are unsure of,</li> </ul> Use a dictionary to look up vocabulary that you are unfamiliar with. Next, put some actions together to help your remember the poem and perform it to someone in your house.	Karate Cats: <a href="https://www.bbc.co.uk/bitesize/topics/zd63xyc/articles/zdp4pg8">https://www.bbc.co.uk/bitesize/topics/zd63xyc/articles/zdp4pg8</a>
<b>Wednesday</b> Activity Sheet 3	Planning my own poem	Today you will be planning your own poem which you will be writing in style of James Carter who wrote 'Anyone seen my dragon?' You need to think of another animal/ creature that you want your poem to be about. Write some rhyming words and adjectives that you will use. Think about what your creature looks like, what is their personality like?	Small town superhero's game: <a href="https://www.bbc.co.uk/bitesize/topics/zd63xyc/articles/zncgk7">https://www.bbc.co.uk/bitesize/topics/zd63xyc/articles/zncgk7</a>
<b>Thursday</b> Activity Sheet 4	Write your own poem	Today you will be writing your own poem based on the plan you created in yesterday's lesson. Your title should be 'Anyone seen my . . . .?' Use my outline of the poem to write your own Look under activity sheet 4 . You must write out your poem using this as a guide.	<a href="https://www.phonicsplay.co.uk/resources/phase/2/buried-treasure">https://www.phonicsplay.co.uk/resources/phase/2/buried-treasure</a> Phonics Phase 5- Buried Treasure Login: march20 Password: home
<b>Friday</b> Activity Sheet 5	Reading Comprehension	Read the comprehension sheet under English Task 5. Then answer the questions remembering to write in full sentences. Once you have completed your questions use the answers to check your work	Karate Cats: <a href="https://www.bbc.co.uk/bitesize/topics/zd63xyc/articles/zdp4pg8">https://www.bbc.co.uk/bitesize/topics/zd63xyc/articles/zdp4pg8</a>

## Maths Timetable - Fractions

	Today's Activity is...	Guidance	Extra Online Maths Games (Optional)
<b>Monday</b> Activity Sheet 1	Mental Maths & Number bonds to 100	This week's mental maths is around subtracting two-digit numbers together. Remember to split tens and ones when subtracting (just like when we add). <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="border: 1px solid black; padding: 5px; width: 45%;"> <math display="block">65 - 21 = 44</math> <math display="block">\begin{array}{r} 60 + 5 \\ - 20 + 1 \\ \hline 40 + 4 = 44 \end{array}</math> </div> <div style="border: 1px solid black; padding: 5px; width: 45%;"> <math display="block">63 - 24 = 39</math> <math display="block">\begin{array}{r} 5 \text{ } \{ \text{ } 1 \} \\ - 20 \text{ } / \text{ } + 4 \\ \hline 30 + 9 = 39 \end{array}</math> </div> </div> <p style="margin-top: 10px;">Continue to time yourself completing your Number Bonds.</p>	Hit the Button- Mental Maths <a href="https://www.topmarks.co.uk/maths-games/hit-the-button">https://www.topmarks.co.uk/maths-games/hit-the-button</a>
<b>Tuesday</b> Activity Sheet 2	Fractions of a shape	This week we will be looking at fractions. Today you will be finding a fraction of a shape. Before you start today's work have a look at the following clip (start from 1 minute 11 sec: <a href="https://www.youtube.com/watch?v=p33BYfINDAE">https://www.youtube.com/watch?v=p33BYfINDAE</a> Now look at your activity sheets below. You need to colour the correct amount of the shape in to show the fraction given.	<b>Purple Mash- A-fish-metic</b> Log in to your Purple Mash account where you will find this game set as a 2-do. <a href="https://www.purplemash.com">https://www.purplemash.com</a>
<b>Wednesday</b> Activity Sheet 3	Fractions of a number	Today your task is to find the fraction of a number. I have included a guide of how to work this out on Maths Activity Sheet three. <b>You will be familiar with this method as we have used this in school before.</b>	Fractonio's Pizzeria- Log in to your Purple Mash account and help create the pizzas using the fractions given. <a href="https://www.purplemash.com">https://www.purplemash.com</a>
<b>Thursday</b> Activity Sheet 4	Equivalent Fractions	Today's task is about finding equivalent fractions. Watch the following video which explains what they are: <a href="https://www.youtube.com/watch?v=qcHlhdGHizI">https://www.youtube.com/watch?v=qcHlhdGHizI</a> Complete the activity under Activity Sheet 4. I have also included a challenge for you to have a go at.	Hit the Button- Mental Maths <a href="https://www.topmarks.co.uk/maths-games/hit-the-button">https://www.topmarks.co.uk/maths-games/hit-the-button</a>
<b>Friday</b> Activity Sheet 5	Fractions within word problems	Today you will be working out word problems including fractions. Make sure you highlight key words within the word problem, this will help you to solve it. Then use the method you used on Wednesday to solve the problems. Make sure you show your working out.	Comparing number up to 1000 Log in to you Purple Mash account and have a go at comparing numbers up to 100. <a href="https://www.purplemash.com">https://www.purplemash.com</a>

## Reading

All reading tasks will be on Purple Mash unless stated otherwise.

	Daily Reading Task Purple Mash 2do's	Daily Reading Challenge (Optional)
Monday	Read Chapter 1: I wish I was a fish Complete Chapter 1: Quiz Activity	Read a chapter from J.K.Rowling's the Ickabog. <a href="https://www.theickabog.com/read-the-story/">https://www.theickabog.com/read-the-story/</a>
Tuesday	Read Chapter 2: I wish I was a fish Complete Chapter 2: Missing Words Activity	Write ten questions that you would ask your favourite author.
Wednesday	Read Chapter 3: I wish I was a fish Complete Chapter 3: Joining Words Activity	Write a book review for a chosen book.
Thursday	Read Chapter 4: I wish I was a fish Complete Chapter 4: Quiz Activity	Choose a book and find 10 adjectives
Friday	Read Chapter 5: I wish I was a fish Complete Chapter 5: Missing Words Activity	Create a blurb for the book you have heard this week 'I wish I was a fish.'

### Spelling Task – -sure, -sion, us, -tion.

Look at the Spelling Activity Sheet 1.  
Practice your spellings making sure you are joining your letters. Use the spellings you have been given this week and write them into full sentences. Make sure you use capital letters and full stops.  
Next, look at spelling activity sheet 2.  
Write the words into full sentences.

A B C D E F G H  
I J K L M N O  
P Q R S T U V

### Times Table Rock Stars

Please log on to your Time Table Rock Stars account daily to practice your 2, 5 and 10 times tables. Try and aim to spend at least 10 minutes a day on this activity.  
<https://trockstars.com/>



### RE Special Celebrations- Baptism

This week we will be looking into the special celebration of Baptism. Your task is to research what happens during the celebration and how it is celebrated. I would like you to create a poster that could be put up in our church to show what happens during this celebration and how we celebrate it. The first thing you are going to need to do is to brainstorm your ideas. Use Google Junior to do some research.

Then use the poster template included below to create your poster for Holy Name Church.  
<https://www.juniorsafesearch.com/>

### Science Awe and Wonder – Soap Bubble Prints

This week I have found a soap bubble print experiment for you to try at home. The instructions have been left below for you to follow. See what amazing designs you can create using bubbles. Make sure you ask an adult to help when doing your experiment. Have fun!



### PSHE Task- I Am Amazing

This week your PSHE task is all about thinking about how amazing you are. Sometimes we can find it easy to pick out things we struggle with or things, which we think we aren't so good at but, often forget about all of our amazing qualities. This week I want you to recognise how amazing you are and finish off the sentences in the balloons. Then I want you to take a moment to look at and reflect on all of these amazing qualities that you have. Be proud of you!



I have included some fun activities below for you if you want something extra to do at home. Any sheets that are needed for these tasks will be attached at the bottom of this letter. Have fun!

### Baking – Rock Cakes

As the weather has not been great over the past week I thought, it would be nice to include a recipe if the weather still isn't great this week. I have included a recipe below for Rock Cakes. Get baking!

### Ship Shape Design

Using materials that you have at home create your own boat. Once you have created your boat test it to see if it will sink or float.  
- Activity sheet below.

### Monster Multiplication

Log in to your Purple Mash account. I have set some Monster Multiplication game for you to practice your times tables.

<https://www.purplemash.com/sch/holy-b43>

### Learn a Language- Duolingo

Learn a language on Duolingo for free. Ask an adult to help you set up an account safely and then choose which new language you would like to learn. You can track your progress as you learn.

<https://www.duolingo.com/learn>



### Art and Craft – Holland

This week in school, we will be looking at Holland. See if you can research any fun facts about this country. We will be making Windmills. I have attached a link to show you how we are going to make them.

<https://www.dltk-kids.com/world/japan/morigami-windmill.htm>





Name: \_\_\_\_\_

## I can use Irregular adjectives to compare (Standard English).



Not all adjectives to compare can be formed by adding 'er' and 'est'. Some adjectives change completely.

**Good** becomes **better** and **best**.

**Bad** becomes **worse** and **worst**.

**Many** becomes **more** and **most**.

Fill in the space with the correct form of the adjective in the brackets.

- 1 Axel thought his cart invention was ..... than his raft invention. (**good**)
- 2 He said that they could move ..... rocks with the cart than by carrying them. (**many**)
- 3 They managed to load ..... of the rocks onto the cart. (**many**)
- 4 The ..... news was that the cart was too heavy to move. (**bad**)
- 5 "This pushing rocks is ..... than carrying rocks," said Sol. (**bad**)
- 6 Then Dusk arrived with the ..... idea of all. (**good**)

She got the stegosaurus to pull the heavy cart of rocks away.



Write your own sentences with these adjectives to compare.



# Anyone Seen My Dragon?

- rhyme
- writing a chorus
- reading together
- animal poems

A KS1 Activity by Roger Stevens



## Missing: DAISY

*Anyone seen my DRAGON?  
Scary, Scaly  
Tall 'n Taily  
Daisy the Dreadful Dragon.*

She's got bad breath.  
A temper true.  
Eats old ladies. (Children too.)

She breathes out fire.  
She puffs out smoke.  
She'll singe your hair. She'll make you choke.

*Anyone seen my DRAGON?...*

She soars about.  
She seeks out food.  
Makes loud noises. (Mainly rude.)

Yes, she's grumpy.  
Yes, she's smelly.  
Big Butt always blocks the telly.

*Anyone seen my DRAGON?...*

*And she's beastly.  
And a pest.  
But I love her. (She's the best.)*

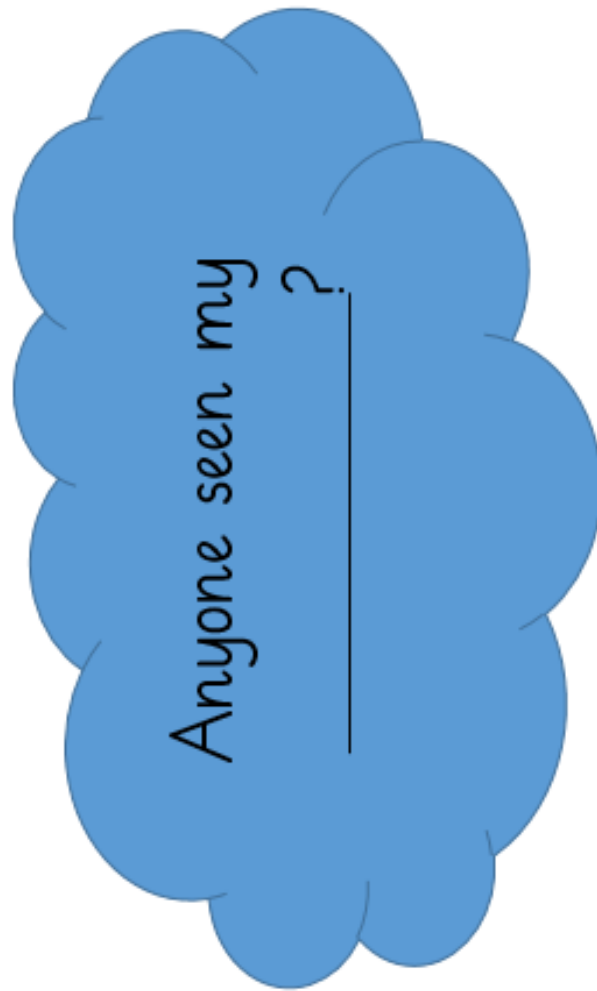
Please send Daisy  
Back to me.  
Treat her well. Or you'll be tea...

*Anyone seen my DRAGON?...*

**James Carter**







Anyone seen my \_\_\_\_\_?

# Anyone Seen My \_\_\_\_\_?

Anyone seen my \_\_\_\_\_?

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_ the dreadful \_\_\_\_\_.

She/he's got \_\_\_\_\_

A \_\_\_\_\_

Eats \_\_\_\_\_

She / He \_\_\_\_\_

She / He \_\_\_\_\_

She'll/ He'll \_\_\_\_\_

Anyone seen my \_\_\_\_\_?

She/he \_\_\_\_\_

She/he \_\_\_\_\_

Makes \_\_\_\_\_

Yes, she's/he's \_\_\_\_\_

Yes, she's/he's \_\_\_\_\_

Anyone seen my \_\_\_\_\_?



# The Owl and the Pussy-Cat

by Edward Lear

The Owl and the Pussy-cat went to sea  
In a beautiful pea-green boat,  
They took some honey, and plenty of money,  
Wrapped up in a five-pound note.  
The Owl looked up to the stars above,  
And sang to a small guitar,  
"O lovely Pussy! O Pussy, my love,  
What a beautiful Pussy you are,  
You are,  
You are!  
What a beautiful Pussy you are!"

Pussy said to the Owl, "You elegant fowl!  
How charmingly sweet you sing!  
O let us be married! Too long we have tarried:  
But what shall we do for a ring?"  
They sailed away, for a year and a day,  
To the land where the Bong-Tree grows  
And there in a wood a Piggy-wig stood  
With a ring at the end of his nose,  
His nose,  
His nose,  
With a ring at the end of his nose.



## The Owl and the Pussy-Cat

“Dear Pig, are you willing to sell for one shilling  
Your ring?” Said the Piggy, “I will.”  
So they took it away, and were married next day  
By the Turkey who lives on the hill.  
They dined on mince, and slices of quince,  
Which they ate with a runcible spoon;  
And hand in hand, on the edge of the sand,  
They danced by the light of the moon,  
The moon,  
The moon,  
They danced by the light of the moon.



# Questions

1. How many verses are there in the poem? Tick one.

- two
- three
- four

2. Which two adjectives are used to describe the boat in the second line of the poem?

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3. Each verse of the poem has some repeated words. Where do they appear in the verse? Tick one.

- at the beginning
- at the end
- in the middle

4. The Owl and the Pussy-cat did three things in the last verse of the poem. What were they?

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5. At what time of day is the poem set? How do you know?

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6. The animals in the poem can talk. Do you think it would be good if animals could talk? Explain your answer.

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## Answers

1. How many verses are there in the poem? Tick one.

- two
- three
- four

2. Which two adjectives are used to describe the boat in the second line of the poem?

**The two adjectives that are used to describe the boat are beautiful and pea-green.**

3. Each verse of the poem has some repeated words. Where do they appear in the verse? Tick one.

- at the beginning
- at the end
- in the middle

4. The Owl and the Pussy-cat did three things in the last verse of the poem. What were they?

**They got married, they ate a feast and they danced by the light of the moon.**

5. At what time of day is the poem set? How do you know?

**It is night-time. We know because the poet talks about the Owl looking up at the stars, and the Owl and the Pussy-cat dancing by the light of the moon.**

6. The animals in the poem can talk. Do you think it would be good if animals could talk? Explain your answer.

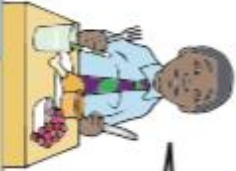
**Answer will vary.**

# Practice Sheet

Term 2 Set 3 Week 11 (b)

Name ..... Date .....

Spelling patterns -sure, -sion, -us, -tion, possessive apostrophe, extension, common exception words



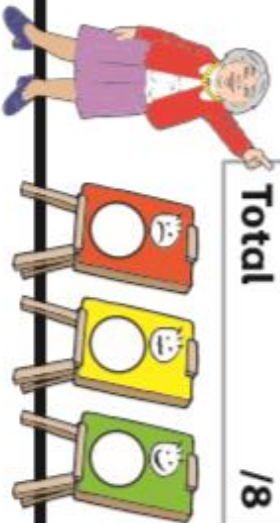
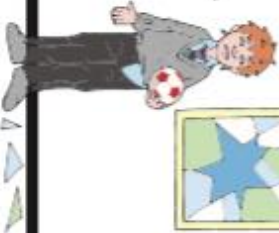
Eating is one of life's great pleasures.



.....  
 .....  
 .....

Spellings	Write	Write	Cover and write	Cover and write
pleasure				
leisure				
fiction				
addition				
man's				
lady's				
caption				
sugar				
			<b>Total</b>	<b>/8</b>

It wasn't me. Fact can be stranger than fiction, Miss.





**Activity Sheet**

Name .....

Term 2 Set 3 Week 11

**Write your own sentences using the words in the boxes.**



worm



.....

wand



.....

action



.....

use



.....

watch



.....





# Number Bonds to 100

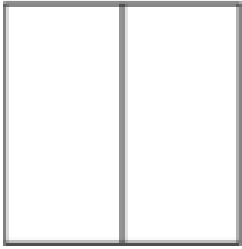
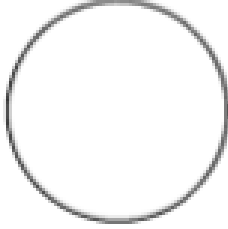
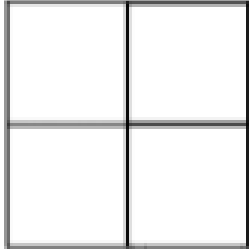
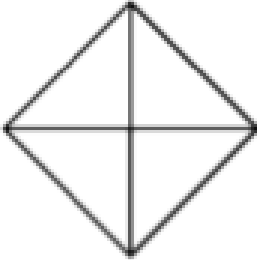
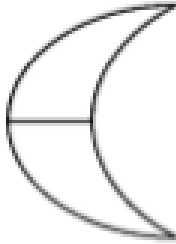
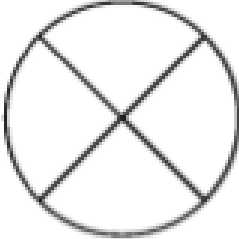
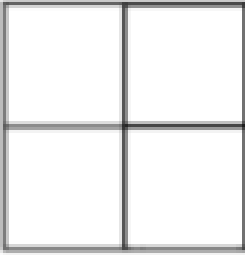
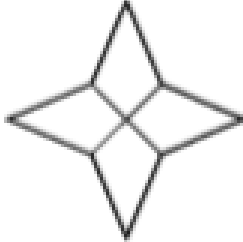
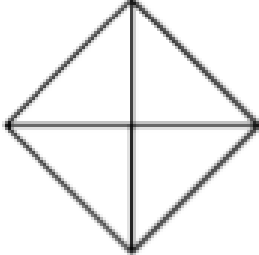
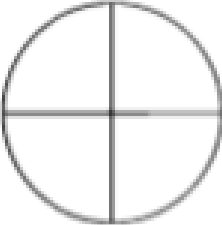
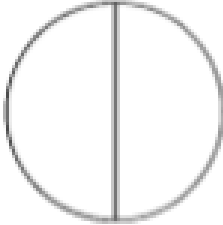
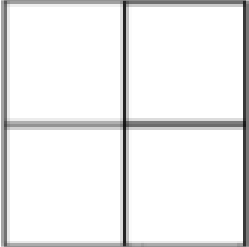
## Worksheet Number 5

Name: \_\_\_\_\_

$\underline{\quad} + 35 = 100$ (1)	$\underline{\quad} + 63 = 100$ (11)	$\underline{\quad} + 93 = 100$ (21)
$3 + \underline{\quad} = 100$ (2)	$33 + \underline{\quad} = 100$ (12)	$45 + \underline{\quad} = 100$ (22)
$60 + \underline{\quad} = 100$ (3)	$\underline{\quad} + 42 = 100$ (13)	$42 + \underline{\quad} = 100$ (23)
$57 + \underline{\quad} = 100$ (4)	$\underline{\quad} + 60 = 100$ (14)	$\underline{\quad} + 64 = 100$ (24)
$\underline{\quad} + 82 = 100$ (5)	$\underline{\quad} + 46 = 100$ (15)	$68 + \underline{\quad} = 100$ (25)
$22 + \underline{\quad} = 100$ (6)	$\underline{\quad} + 73 = 100$ (16)	$\underline{\quad} + 71 = 100$ (26)
$\underline{\quad} + 76 = 100$ (7)	$94 + \underline{\quad} = 100$ (17)	$17 + \underline{\quad} = 100$ (27)
$\underline{\quad} + 33 = 100$ (8)	$\underline{\quad} + 72 = 100$ (18)	$46 + \underline{\quad} = 100$ (28)
$14 + \underline{\quad} = 100$ (9)	$\underline{\quad} + 25 = 100$ (19)	$\underline{\quad} + 73 = 100$ (29)
$\underline{\quad} + 28 = 100$ (10)	$\underline{\quad} + 61 = 100$ (20)	$53 + \underline{\quad} = 100$ (30)

$\frac{1}{4}$ = one quarter	$\frac{1}{2}$ = one half
$\frac{2}{4}$ = two quarters	$\frac{3}{4}$ = three quarters

- Shade the given fraction for each shape.

 $\frac{1}{2}$	 1	 $\frac{3}{4}$
 $\frac{1}{4}$	 $\frac{1}{2}$	 $\frac{3}{4}$
 $\frac{1}{4}$	 $\frac{2}{4}$	 $\frac{1}{4}$
 $\frac{3}{4}$	 $\frac{1}{2}$	 $\frac{2}{4}$

- Do you notice anything about the  $\frac{3}{4}$  shapes?

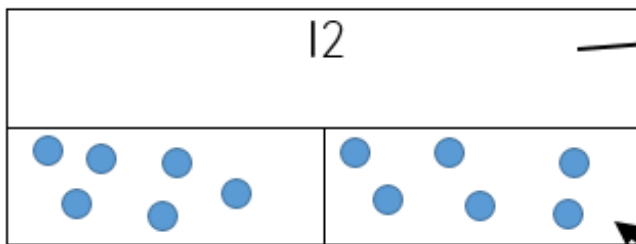




Finding a fraction of a number	
$1/2$ of $24 =$	$3/4$ of $16 =$
$1/4$ of $20 =$	$1/3$ of $21 =$
$1/2$ of $20 =$	$3/4$ of $32 =$
$1/4$ of $36 =$	$1/3$ of $24 =$
$1/2$ of $14 =$	$3/4$ of $28 =$
$1/4$ of $12 =$	$1/3$ of $27 =$

Show your working out like this:

$1/2$  of  $12 = 6$



The number you are sharing.

The bottom of you grid is split depending on the denominator

As the numerator is  $1$  that is how many of the sections we need to count. We now know that  $1/2$  of  $12 = 6$

Name ..... Class ..... Date .....

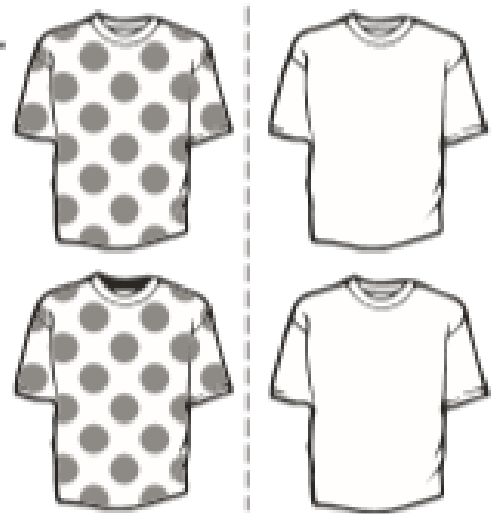
**Recognise the equivalence of simple fractions**

**1** Look at the t-shirts and complete the following.

out of  t-shirts have spots.

So  $\frac{\text{input}}{\text{input}}$  of the t-shirts have spots.

This is equivalent to  $\frac{\text{input}}{2}$

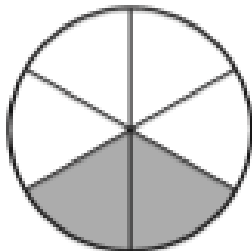


**2** Now try to complete this.



$$\frac{\text{input}}{8} = \frac{\text{input}}{4} = \frac{\text{input}}{2}$$

**3** Think carefully about this.



$$\frac{\text{input}}{6} = \frac{\text{input}}{3}$$



**4** Try to use what you have noticed about the equivalent fractions, to complete the following?

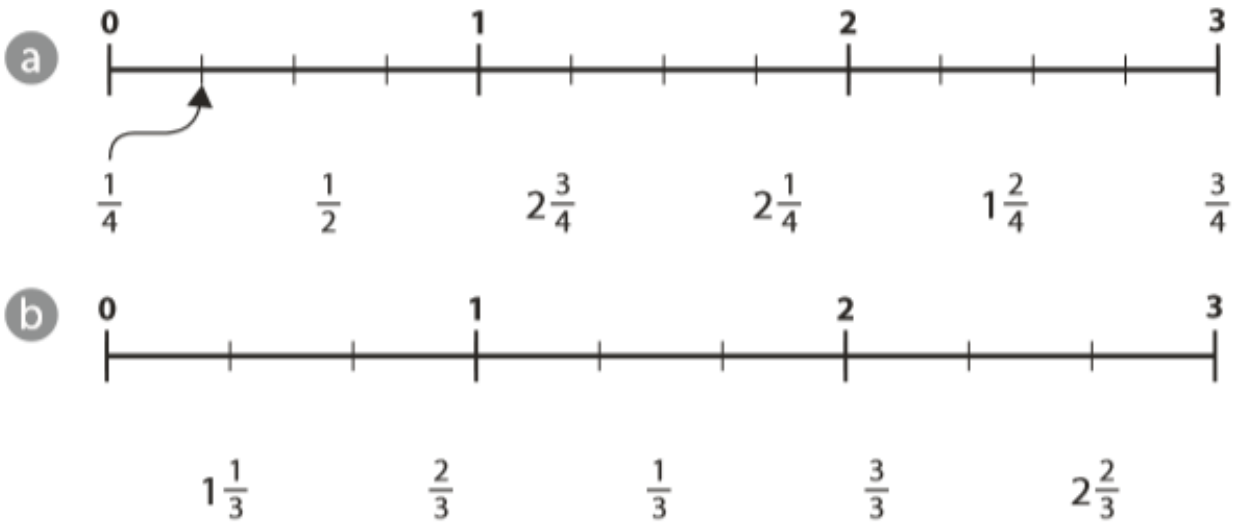
**a**  $\frac{1}{2} = \frac{\text{input}}{10} = \frac{3}{\text{input}}$

**b**  $\frac{3}{4} = \frac{\text{input}}{12} = \frac{12}{\text{input}}$

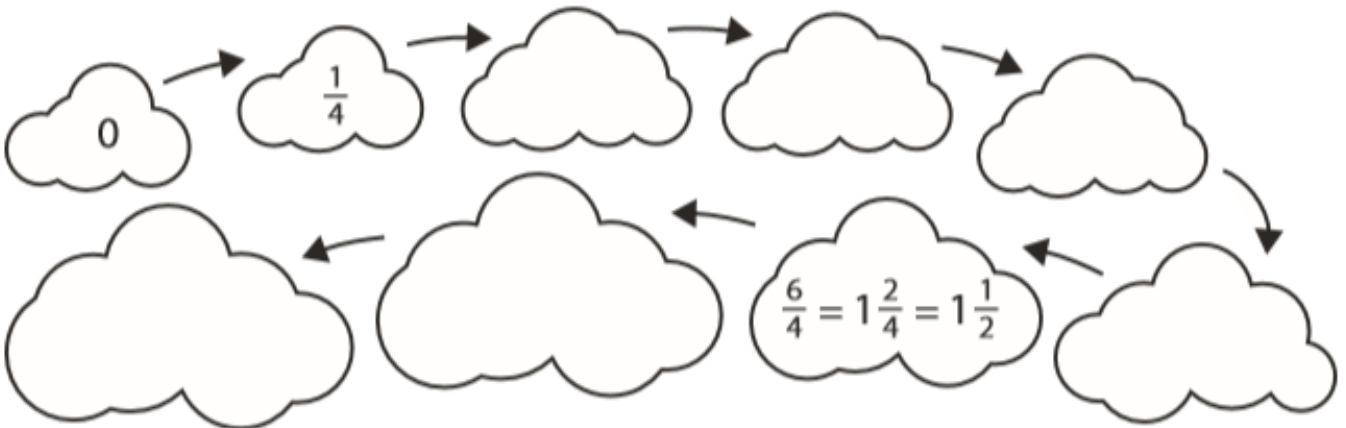


## Count in fractions and place them on a number line

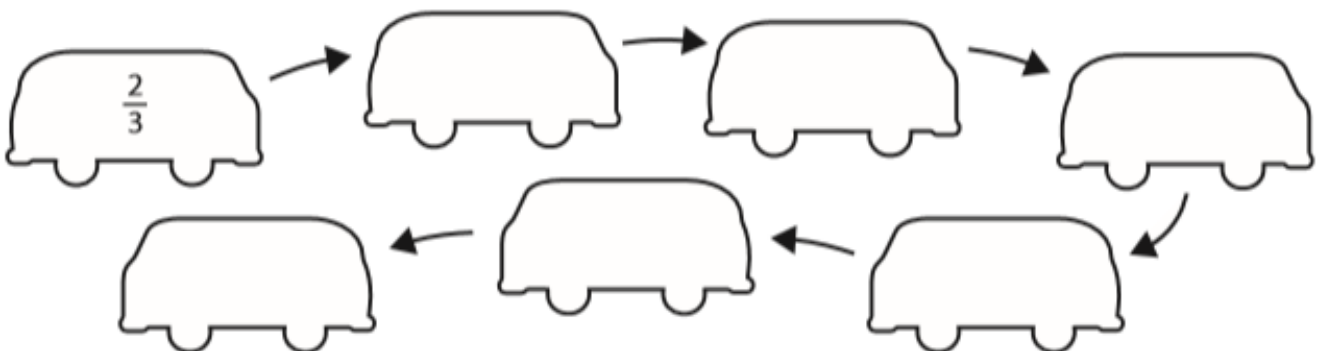
- 1** Draw a line from each fraction to where it fits on the number lines. One has been done for you.



- 2** Complete the following by counting in steps of one quarter ( $\frac{1}{4}$ ). If you can, write the equivalent fraction or mixed fraction, as well. Examples are shown.



- 3** Now count in steps of one third ( $\frac{1}{3}$ ).





# Fraction Word Problems

## Challenge Cards



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### Fraction Word Problems

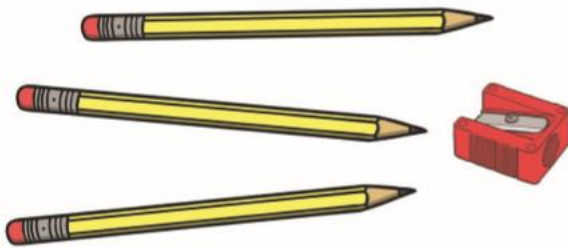
1. Janik invited 20 friends to his birthday. A quarter of them were girls. How many were boys?



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### Fraction Word Problems

2. In a box of 24 pencils, half were sharp. How many weren't sharp?



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### Fraction Word Problems

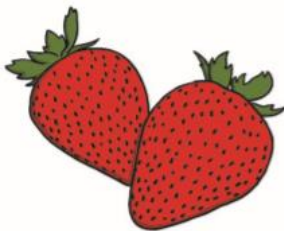
3. If it took Beth 15 minutes to walk  $\frac{3}{4}$  of the way to school, how long would the whole journey take?



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### Fraction Word Problems

4. Fatim picked 15 strawberries but ate a third of them on the way home. How many did she have left?



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### Fraction Word Problems

5. Eva says, " $\frac{1}{2}$  of 20 is more than a  $\frac{3}{4}$  of 16." Is she right?



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### Fraction Word Problems

6. The class want to play football. There are 30 players and 5 players on a team. How many teams can they have?



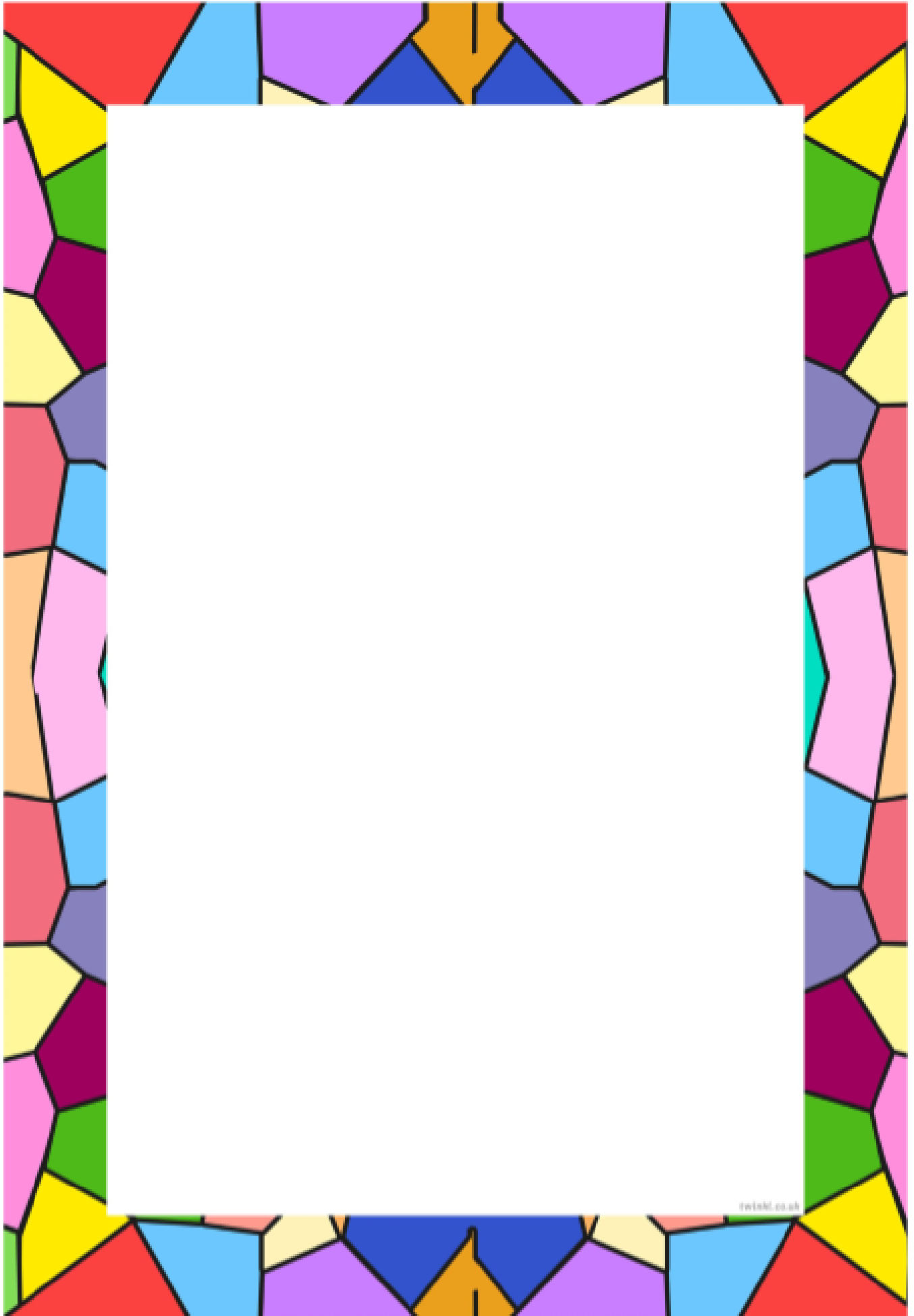
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### Fraction Word Problems

7. James collected cards but chose to swap half of them. If he had 22 cards, how many did he swap?



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Nature Art Examples- Art/Science



# Awe and Wonder

## Soap Bubbles Prints

### You will need:



Ready mix paint

Shallow tray



Water



Brushes



Washing-up liquid



Straws



White paper



Paint pots

### Method:

1. Mix together,  $\frac{1}{3}$  ready mix paint,  $\frac{1}{3}$  water and  $\frac{1}{3}$  washing up liquid in a paint pot.
2. Pour into a shallow tray.
3. Take a straw, place into the liquid and begin to blow, make sure not to suck otherwise you'll end up with a mouth full of paint!
4. Move the straw around creating bubbles.
5. Once the tray is full of bubbles take a sheet of paper and lay it carefully on top of the tray pressing down gently.
6. Lift it off and see the print you have created of the bubbles.

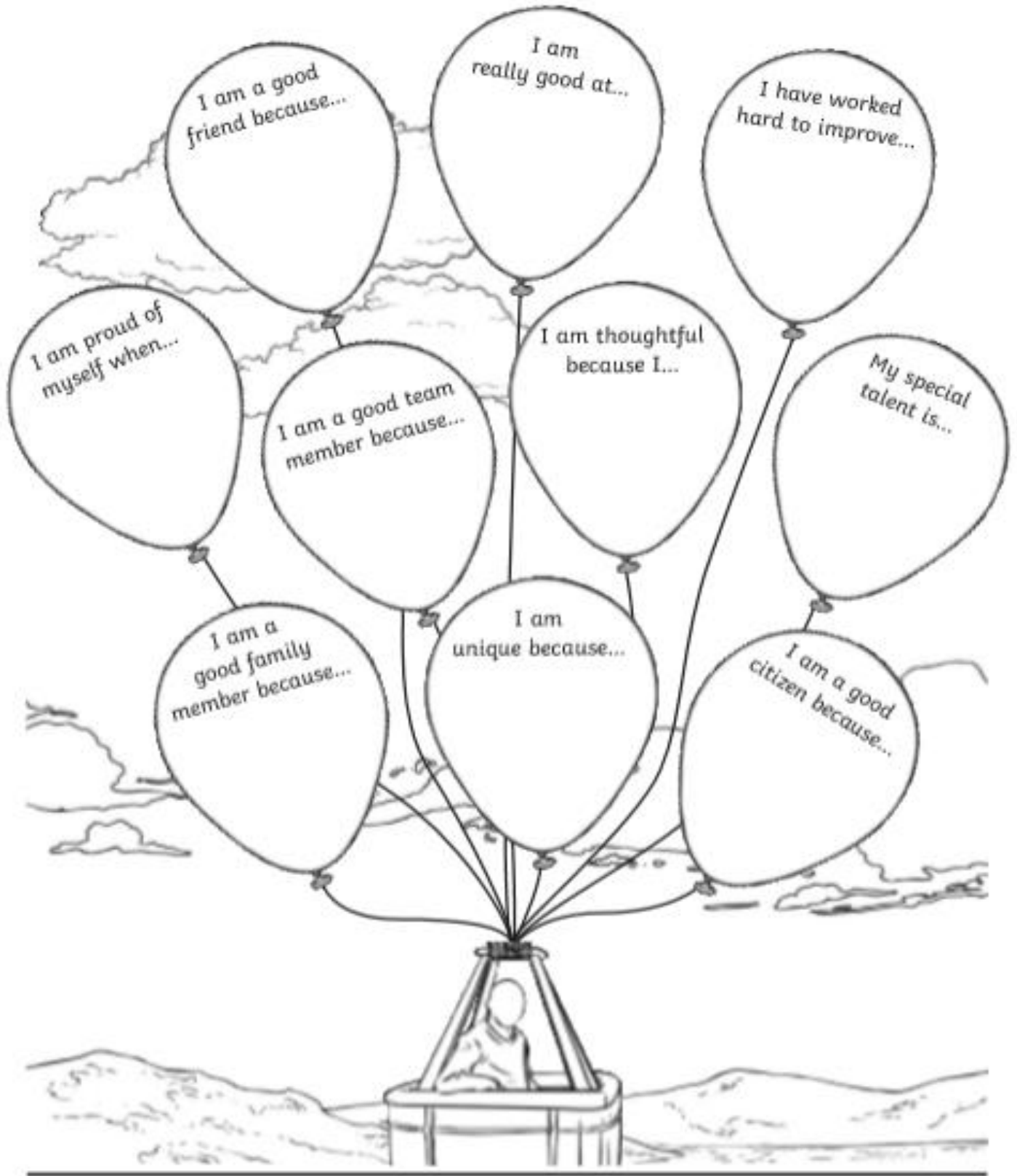


### The Science Bit

Because washing up liquid can hold air inside its bubbles when you blow air in to the mixture it stays there creating lots of coloured bubbles. Because there is water in the mixture when you put paper on top of it the water is sucked into the paper, leaving a print.

# I Am an Amazing Person!

Read and finish the sentences in the balloons below.





## Rock Cakes

### Ingredients

- 225g self-raising flour
- 75g caster sugar
- 1 tsp baking powder
- 125g unsalted butter, cubed
- 150g dried fruit
- 2 tsp vanilla extract
- 1 free-range egg
- 1 tbsp milk

### Equipment

- Baking Tray
- Greaseproof paper
- 2 bowls
- Wooden spoon
- Dessert spoon
- Cooling Rack

### Method

1. Preheat oven to 180C and line a baking tray with greaseproof paper.
2. In a bowl, mix the flour, sugar and baking powder together.
3. Rub in the cubed butter between your fingers and thumbs until the mixture looks like breadcrumbs. Next, stir in the dried fruit.
4. In a clean bowl, add the vanilla extract, egg and milk and beat with the wooden spoon until mixed well.
5. Add the dry ingredients to the egg mixture and mix together carefully. It should soon become a lumpy, combined mixture. If the mixture does not come together and is still too dry, add a little more milk.
6. Place a spoonful of the mixture onto the prepared baking tray. Make sure there is enough space for the mixture to double in size during cooking.
7. Bake for approximately 15-18 minutes. The cakes should be a lovely, golden brown colour. Remove from the oven and cool slightly before placing on a cooling rack to cool completely.

# #LifeGoesONline

Bringing Life Science Centre to you!

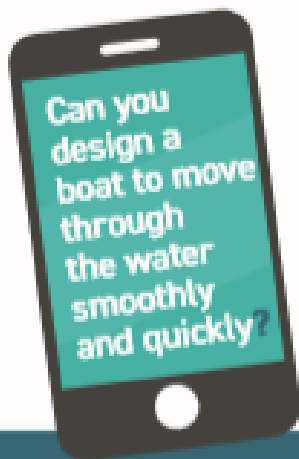


## Life

SCIENCE FOR ALL

# Ship shape design

(KS1/KS2)



## Intro

Boats come in all shapes and sizes. Some need to carry heavy cargo, some race at high speeds and others are places to relax. But all boats have the same challenge: moving through the water. A boat's sails or engines push it forwards, but as it moves the water pushes against it. We call this water resistance.

## Making a boat

- To make a boat you need a material that is easy to shape, lightweight and most importantly - waterproof. Aluminium foil is a good choice.



- Mark out a square with sides 10cm long on the foil with a ruler and pen then cut out your square. Be careful with the sharp scissors.
- What shape do you want your boat to be? A triangle, a square, a pentagon? What shape do you think will move through the water easily?

- Fold up the foil about 1cm to make the sides of your boat. Where there's a corner, squish the foil together to make sure no water can get in.

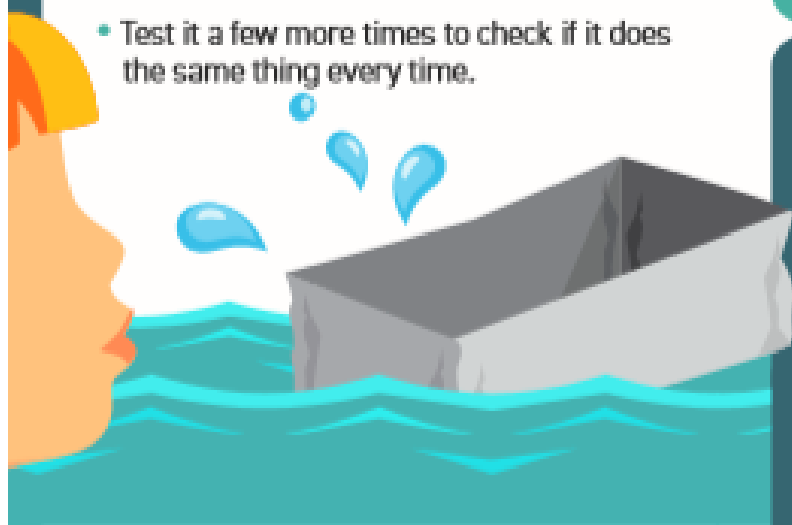


We are stuck at home, but #LifeGoesONline! Check out other activities to try at home on our social media channels @scienceatlife and send us a message if there's anything you want to see us cover!



## Testing your boat

- To test your boat, you need water. Fill a washing up bowl, a deep baking tray or the sink with enough water that your boat floats freely.
- Start with your boat close to you and gently blow on it. Your breath will push it forwards.
- How does it move? Is it fast or slow? Does it go in a straight line or does it turn?
- Test it a few more times to check if it does the same thing every time.



## Different shapes

- Once you've tested your boat several times, make a different shaped boat and see how that one moves.
- If you have someone to work with you could test your boats side by side, or race to see whose boat goes furthest!

## Safety

- If you spill any water, make sure to clean it up before someone slips on it.
- If you're not confident with scissors, ask someone responsible to help you cut the foil.

## “Talking points”

- How can we control this experiment to make it a fair test?
- Which shapes work better – pointier ones, or flatter ones? Why might this be?
- What shapes are real boats, how does this shape help them move?

## Curriculum links

### KS1

- Describe the simple physical properties of a variety of everyday materials.
- Think about the properties of materials that make them suitable or unsuitable for particular purposes.
- Think about unusual and creative uses for everyday materials.

### KS2

- Setting up simple practical enquiries, comparative and fair tests.
- Identify the effects of air resistance, water resistance and friction, that act between moving surfaces.
- Explore resistance in water by making and testing boats of different shapes.



[life.org.uk/life-goes-online](http://life.org.uk/life-goes-online)