

Thursday 2nd April, Year 6

A joke from Mrs Gogarty: A family of three tomatoes were taking some exercise one day when the baby tomato started lagging behind. Mother and Father Tomato both called back, "Please ketchup!"

Answers for yesterday's English and Arithmetic.

Here are the answers to yesterday's comprehension about Bumblebees.

1. **Award 1 mark** for:
 - *Bumblebee Conservation Trust.*
2. **Award 1 mark** for reference to any of the following, up to a maximum of **2 marks**:

	Evidence
The Bumblebee Conservation Trust is worried about bees.	<ol style="list-style-type: none"> 1. bumblebees are <i>struggling to survive</i>, e.g. <ul style="list-style-type: none"> • <i>bumblebees are endangered</i> • <i>there are now far fewer flowers to provide bees with the pollen and nectar.</i> 2. bumblebees are finding <i>themselves hungry and homeless</i>, e.g. <ul style="list-style-type: none"> • <i>because they don't have a home and they are going hungry.</i> 3. two UK species having become <i>extinct</i>, e.g. <ul style="list-style-type: none"> • <i>bees are slowly going extinct.</i> 4. bumblebee numbers having <i>declined sharply</i>, e.g. <ul style="list-style-type: none"> • <i>population of bees is declining</i> • <i>there is less and less of them.</i> <p>Do not accept reference to the Bumblebee Conservation Trust asking for our help.</p>
The leaflet makes readers feel hopeful for bumblebees.	<ol style="list-style-type: none"> 5. all not being lost 6. we can take action today to help save them, e.g. <ul style="list-style-type: none"> • <i>you can take action today</i> • <i>we can help to save these hardworking pollinators.</i> <p>Do not accept general comments about help, e.g.</p> <ul style="list-style-type: none"> • <i>you can help.</i>

3. **Award 1 mark** for:

farming has helped bees.

paved gardens are attractive.

bees are good at finding their way.
bees have only started struggling recently.

1 mark

4. **Award 1 mark** for reference to honeybees, e.g.

- *the honeybee.*

1 mark

5. **Award 1 mark** for:

- *Don't 'bee' confused.*

1 mark

6. **Award 1 mark** for reference to either of the following:

1. it releases pollen that would otherwise stay inside the flower, e.g.

- *because it releases trapped pollen that they wouldn't have been able to get out*
- *it makes a buzz that gets more pollen than other bees do*
- *it helps release more pollen.*

2. key produce is more expensive / harder to get without it, e.g.

- *it makes some vegetables we eat easier to produce and sell a lot cheaper*
- *it means we can buy more common foods cheaper*
- *it would be harder to grow beans.*

1 mark

7. **Award 1 mark** for:

so that others avoid it
because it smells better than nectar
so others know it has pollen
because bees give flowers their scent

1 mark

8. **Award 1 mark** for:

- *lifeline.*

1 mark

9. (a) **Award 1 mark** for **all four** correct:

Bee-friendly	Not bee-friendly
---------------------	-------------------------

lavender	✓	
pansy		✓
herbs	✓	
wild rose	✓	

(b) **Award 1 mark** for reference to insufficient production of pollen / nectar / food, e.g.

- *it is because they don't have much pollen*
- *they don't have as much pollen and nectar as they need*
- *they are not rich in pollen.*

Also accept reference to flowers that are not bee-friendly having no / little value, e.g.

- *because they are no value to the wildlife.*

1 mark

10. **Award 1 mark** for:

- enjoys preparing food .
- has lots of energy.
- is willing to handle bees.
- is skilled at gardening.

1 mark

11. **Award 1 mark** for **three** correct or **2 marks** for **all four** correct:

	True	False
Wasps can be aggressive.	✓	
Male bumblebees sometimes sting.		✓
Bumblebees only go outside when it is warm.		✓
You need a big garden to help bumblebees.		✓

Up to 2 marks

12.

Help for all bumblebees
<p>Acceptable points:</p> <ol style="list-style-type: none">1. plant bee-friendly flowers2. support the work of the Bumblebee Conservation Trust3. raise public awareness4. conserve bumblebee habitats5. replace flowers which are not bee-friendly6. remove paved gardens7. stop intensive farming <p>Do not accept reference to bee-friendly flowers with no reference to human action.</p>
Help for a weak bumblebee
<ol style="list-style-type: none">8. give it a sugar and water mix9. move it close to flowers <p>Do not accept reference to a sugar and water mix with no reference to human action.</p>

Up to 2 marks

13. **Award 1 mark** for reference to any of the following:

1. either of the 'bee' puns in the factsheet, e.g.
 - *Don't 'bee' confused*
 - *bee kind.*
2. interrupt your picnic or steal your sandwiches, e.g.
 - *bumblebees will never interrupt your picnic and steal your sandwiches!*
 - *bumblebees stealing sandwiches are funny.*
3. smelly feet, e.g.
 - *it says that bumblebees having smelly feet is useful.*
4. energy drink, e.g.
 - *energy drink for bees.*
5. fat, furry (little creatures), e.g.
 - *these fat furry creatures.*

1 mark

14. **Award 1 mark** for reference to any of the following, up to a maximum of 2

marks:

1. pollination / buzz pollination / support plant reproduction, e.g.
 - *pollinate our flowers*
 - *only they can use buzz pollination*
 - *they help regenerate plants.*
2. they support the production of food, e.g.
 - *make producing food easier*
 - *peas and beans would be more expensive*
 - *they help us grow food.*
3. survival of plant species, e.g.
 - *without them all plants would die*
 - *they keep plants alive*
 - *they help flowers survive.*
4. bees supporting farmers / gardeners, e.g.
 - *they help out farmers.*
5. bees being much loved, e.g.
 - *they are an essential part of summertime.*

Arithmetic Answers

1. 8,357 [1]

Q2. 20 [1]

Q3. 10 [1]

Q4. 162

[1]

Q5.

450

[1]

Q6.

$17\frac{1}{2}$

OR

$\frac{70}{4}$ OR $\frac{35}{2}$

[1]

Q7.

$1\frac{3}{4}$

OR

$\frac{7}{4}$

[1]

Q8.

$\frac{2}{9}$

[1]

Q9.

Award **TWO** marks for the correct answer of 215,016

[2]

Q10.

Award **TWO** marks for the correct answer of 24

[2]

Q11.

$\frac{19}{20}$

[1]

Q12.

$$\frac{23}{36}$$

[1]

Q13.

459

[1]

Q14.

112

[1]

Q15.

$$3\frac{3}{10}$$

OR

$$\frac{33}{10}$$

[1]

Q16.

6,090

[1]

Q17.

$$\frac{6}{7}$$

[2]

Q18.

Award **TWO** marks for the correct answer of 22,572

[2]

Q19.

0.009

[1]

Q20.

7.1

		[1]
Q21.		
27		
		[1]
Q22.		
4.75		
		[1]
Q23.		
600		
		[1]
Q24.		
101,000		
		[1]
Q25.		
336		
		[1]
Q26.		
369		
		[1]
Q27.		
253.4		
		[1]
Q28.		
22		
		[1]
Q29.		
110		
		[1]
Q30.		
8		
		[1]
Q31.		

Q32.

0

Q33.

10

Q34.

60

Q35.

8.993

How did you get on?

English

**Now read this short story and answer the questions about it in your book.
I will send you the answers tomorrow.**

The Boy from Far Away

Joe's mum sent him to wash his hands before dinner. Joe stomped out of the tent and ran across the muddy site. It was still raining, as it had been for the past four days. Camping holiday weather, Dad called it.

There was nobody else in the shower block. Joe turned the tap on. Then he heard a noise.

'Pssst!' said a voice.

Joe turned round. He couldn't see anybody.

The noise came again. 'Pssst!'

Then Joe noticed a pair of eyes looking at him from above one of the shower curtains.

'Help me! I'm stuck!' said the voice.

Joe pulled open the curtain and blinked. Hard.

The person – it was impossible to say whether it was a boy or a man – was standing on the wall. His feet, encased in butter-yellow boots, were planted firmly on the

files.

'Wow! How did you get up there?' asked Joe.

'I thought it was the ground,' said the person.

Joe frowned. 'But what's holding you up there? Why aren't you falling down?'

'It's my boots,' whispered the person.

'Your boots!' exclaimed Joe.

'Sssshh!' The person peered round the edge of the cubicle to make sure nobody was listening. 'Please do not speak about the boots. They are secret.'

Slowly, the person lifted one foot and began to walk down the wall. When he reached the ground he righted himself and grinned up at Joe. He was very short – at least six inches shorter than Joe – and he had a young-looking face. But his hair was sparse and wispy and his hand was wrinkly like an old man's hand.

'Thank you. You are my best friend! I am Oran,' said the person.



'That's okay. I'm Joe. But how ... ?'

'Is this Holiday?' whispered Oran, looking round the shower block.

'No!' laughed Joe. 'A holiday isn't a room! It's like ... a break.'

Oran frowned. 'A break? Snap?'

'Not that sort of break. A rest sort of break. When you go somewhere to enjoy yourself.'

Oran nodded. 'Rest sort of break. Enjoy yourself.' He dipped his thin wrinkly hand into the pocket of his shorts and pulled out a notebook and pencil. He wrote something down.

'Only it's better when it's not raining,' said Joe.

'Good! So now I am in the right place. And the right way up! I will have Holiday with you!'

'Hmmm, maybe,' said Joe, cautiously. 'How come you haven't heard of a holiday before?'

'We don't have them where I come from,' said Oran.

'Where's that?' asked Joe. He thought everybody had heard of holidays.

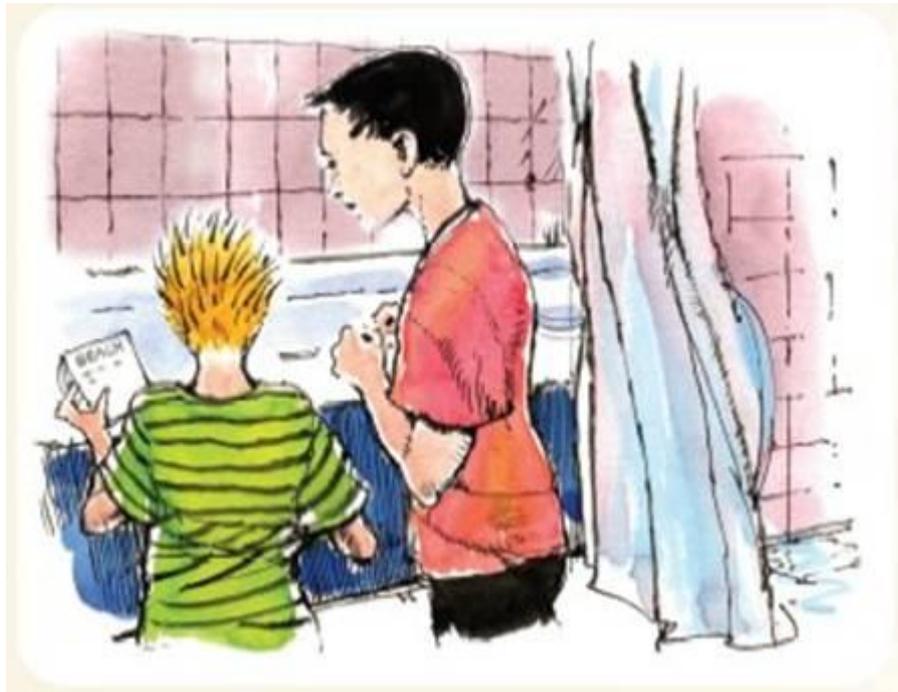
'Oh – far away,' said Oran, waving his skinny arm.

Joe had never heard of Faraway.

'Where's that?'

Oran suddenly looked sad. 'It is a very long way and I do not want to talk about it.'

Joe thought Oran must be homesick. He would have to try to be friendly and not mention Faraway again.



'Why do you want to know about holidays?' asked Joe.

'It is my homework,' said Oran. 'Tell me more.'

Joe tried to explain. 'Holiday is when you have fun and games and you don't have to go to school or work. You can go on the beach. The beach is brilliant – sun and sea and tons of sand to play on.'

'I would like to see Beach,' said Oran. He stood up and put the notebook away. 'I must go now. There is much work to do. It will be sunny tomorrow and we will go to Beach.'

Joe didn't believe him.

But it was sunny the next day. Suddenly the camp site came to life. Bags full of grass mats and beach balls appeared outside each tent. Picnics were packed and swimsuits put on.

Joe was hardly surprised at all when he tripped over a small figure bending down to tie his bootlaces. It was Oran, of course.

'Hello, friend!' said Oran. 'Is this to Beach?'

'Yes,' said Joe. 'Look! There it is!'

He pointed down at the bright sand and dazzling sea.

'Oh!' gasped Oran. 'But the sea is wet? You didn't like the wet!'

'I didn't like the wet when it was coming down as rain. It's different when it's the sea.'

Oran didn't look convinced.

Oran stood on the sand and made notes while his friend swam. This water was interesting. It wasn't flat. It had hills and ridges, and it moved.

Oran noticed that every so often the water came nearer, and he kept having to walk a bit further up the beach. The water was growing!

As they walked back up the beach, Oran confided, 'I don't wish to alarm you, Joe, but the sea is growing. I think it may overflow.'

'The sea can't overflow,' said Joe. 'It just moves up and down a bit – it's called the tide. It's something to do with the moon's gravity.'

'Ah! I know about gravity,' said Oran, jumping with both feet and landing – THUMP! – on the sand.

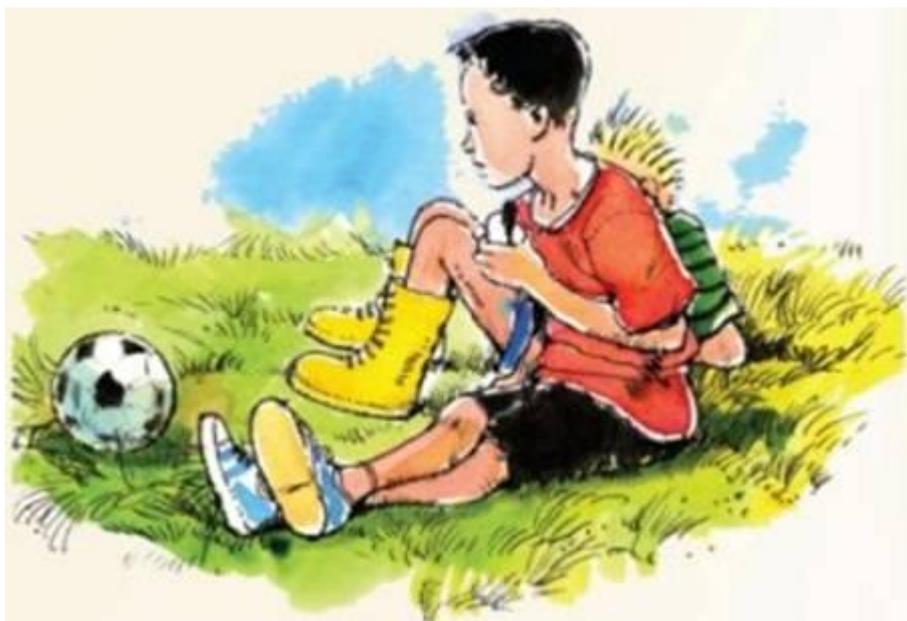


Joe looked down at Oran's boots. They might be great for walking up walls, but were they any good for playing football in? Oran had never heard of football, so Joe fetched his ball and showed Oran how to kick.

'Now you try,' said Joe. Oran pulled back his butter-yellow boot and then he kicked – hard. The ball flew into the air, growing smaller and smaller until it was just a tiny speck in the sky.



'Wow!' said Joe. Maybe Oran's boots were all-round magic boots. It was a stunning kick for somebody who hadn't even heard of football. And where on Earth had nobody heard of football?



The sun shone the rest of the week.

Soon it was the last evening of the holiday. Then Oran told Joe his news.

'I have finished my homework. Tonight, I have to go back.'

Joe fiddled with a few blades of grass. He didn't want Oran to go home. His

holiday had been much more fun with him around. And much sunnier.

'Perhaps we could write to each other,' said Joe.

'I'm afraid we don't have a very good postal service where I come from,' said Oran. 'But please give me your address. You have been a good friend to me. I would like to send you a present. What would you like?'

'What I would like most of all is – a special pair of boots like yours,' said Joe.

Oran looked down and wriggled his toes. 'This is difficult,' he said.

'These boots were specially made for me and my ... circumstances.

They might not suit you. But I will send you some boots specially made for you and your ... circumstances.'

'Thanks!' said Joe.

'Now I must go,' said Oran. He shook Joe's hand and stood up.

'Goodbye, friend.'

When Joe woke up the next day it was raining again.

It rained all the way home. When they got back there was a parcel waiting on the doorstep. There was an envelope taped on top.

He opened the letter.

'Dear Joe,' it said.

'Thank you for helping me with my homework. I have explained to my fellows about holidays, and fun and games, and the sea and beach.

Here are the special boots I promised you. They aren't exactly like mine.

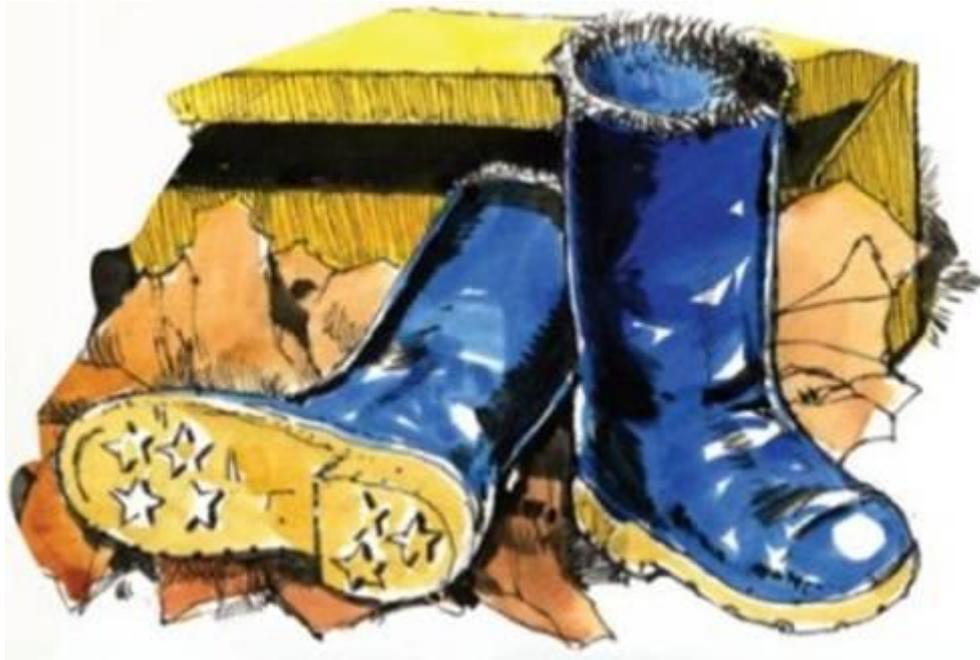
Now that I am not there with you, there may be rather a lot of rain for a while so I have made your boots waterproof. Also, you said that you didn't like yellow very much, so yours are a different colour. I hope you will like these. Remember to be sensible with them. Wall-walking can be very dangerous.

Your friend,

Oran.'

Joe ripped open the box. Inside was ... a very special pair of boots.

Joe lifted them out. They were glossy navy-blue and lined with some kind of short black fur and they had a pattern of stars on the soles. So these were Joe's special boots – made for him and his circumstances. Glossy blue, fur-lined, star-soled, wall-walking ... wellington boots!



Q2.

1. Circle the correct option to complete each sentence below.

(a) This story is about two boys who

go sailing together.

do not get on.

learn to play football.

meet by the seaside.

1 mark

(b) Joe thinks that Oran is a bit strange but we realise that he

is really an old man.

has come from another world.

does not like the rain.

is Joe's best friend.

1 mark

(c) The boys have fun together although Oran has really come to

collect information.

have a holiday.

find a new friend.

learn to use his boots.

1 mark

2. What did Joe's Dad mean when he said:

Camping holiday weather?

2 marks

3. On page 2, Oran introduces himself to Joe in the following way:

'Thank you. You are my best friend! I am Oran.'

Why might Joe have found this introduction surprising?

2 marks

4. What clues are there in the story that Oran was not an ordinary boy?

Find **three**.

2 marks

5. Look at page 2. Oran asks 'A break? Snap?'

Explain why Oran asks this.

2 marks

6. *"Hmmm, maybe," said Joe, cautiously...* (page 2)

Which word most closely matches the meaning of the word *cautiously*?

Tick **one**.

happily

slowly

quietly

carefully

1 mark

7. Why is Oran surprised that Joe likes swimming?

1 mark

8. Look at the fourth page of *The Boy from Far Away*. It says

This water was interesting. It wasn't flat. It had hills and ridges, and it moved.

Why do you think the sea is described in this way?

2 marks

9. At the end of the holiday, Joe was sad about Oran leaving. Does this surprise you?

Explain fully, referring to the text in your answer.

3 marks

Spellings

disappointed

dissatisfied

dissimilar

unsure

unnecessary

unnatural

overseas

overrule

overreact

impatient

immobile

immovable

Write these words in sentences in your home learning book.

Maths

Please draw this grid out in your book and then attempt the challenge!

Diamond Mining

You are mining for diamonds and your challenge is to start from home, cross the grid, get the diamond and return home. To cross the grid, you must solve the question in each section of your chosen route and then use a calculator to double check. Once this has been achieved, you can continue with your journey. To be rewarded for collecting your diamond, working out **MUST** be shown!

Home

23×26	84×43	147 $\times 34$	231×17	227×7	202 $\times 28$	49×13	327 $\times 15$
632×3	34×29	527 $\times 13$	728×6	929×4	156×9	835×7	923×4
924 $\times 16$	57×27	71×36	193×8	831×9	835×7	806×5	42×39
438×8	615×5	38×49	622×7	214 $\times 55$	583×7	207×9	34×57
664×4	816×8	57×37	763 $\times 24$	289 $\times 48$	391×4	320 $\times 58$	74×38

Diamonds are here!

Extras

Don't forget to read!

Practise your times tables – look at <https://www.timestables.co.uk/games/> and create a free account.

Log onto NumBots and Times Table Rock Stars.

Whole week projects: History. MAYA MATHEMATICS

Challenge 1: Numbers under 19

Please draw this key out in your book. Use it to write your date of birth, phone number and 30 Maths questions in Maya numerals. (They must all use numbers that are less than 20.) Remember, the Maya invented the number 'zero'.

 0	 1	 2	 3	 4
 5	 6	 7	 8	 9
 10	 11	 12	 13	 14
 15	 16	 17	 18	 19

Challenge 2: Numbers up to 399

Now, have a go at reading these higher numbers. Look really carefully at the explanation below. Then draw the Mayan numbers in your book and write their equivalent in our number system. (The answers are on the next page, but don't look until you've had a go at working them all out!)

0-399 Maya Number System

Can you work out these Maya numbers? Use the key to help you.

 <input type="text"/>	 <input type="text"/>	 <input type="text"/>
 <input type="text"/>	 <input type="text"/>	 <input type="text"/>
 <input type="text"/>	 <input type="text"/>	 <input type="text"/>
 <input type="text"/>	 <input type="text"/>	 <input type="text"/>

The Maya only counted up to 20. After that they would count in multiples of 20.




The symbols in the top row need to be added together and multiplied by 20:
 $(1+5) \times 20 = ?$

The bottom row simply needs to be added together:
 $1 + 1 + 5 + 5 = ?$

The total value of the symbols can be calculated by simply combining the two values together!
 $(6 \times 20) + (1 + 1 + 5 + 5) = ?$

Key	
	0
	1
	5
Number of 20s	
Number of 1s and 5s	



0-399 Maya Number System Answers

 6	 49	 132
 160	 120	 325
 50	 347	 258
 118	 59	 109

Science

L.O. To explain what electrical conductors and insulators are.

Watch this clip about conductors and insulators.

<https://www.youtube.com/watch?v=qIF90dhqGPY>

Your challenges can now be written up in your book.

Challenge one

Conduct electricity means to let electricity travel through it. Can you think of as many things as possible that conduct electricity, including items that you saw on the clip and things that you may have in your house? Put a heading of "Conductors of Electricity." Draw and label the items under this heading.

Challenge two

An **insulator** means something that will not let electricity pass through it. Can you think of as many things as possible that will not allow electricity to pass through them? Put a heading of "Insulators of Electricity." Draw and label the items under this heading.

Challenge three

Give a detailed explanation of the experiment that you saw in the clip.