

Thursday 18th June

Hello Year 6,

We can't believe that its already the middle of June!

As you probably are aware, things are starting to change at Howley Grange as some children are coming back to school. There are many of you who are still learning at home though, and we just want you to know that we miss you and hopefully will be able to see you at some point soon. In the meantime, keep working hard with the home-learning and know that we are thinking of you.

Here are the activities for this week for you to follow and complete. If you have some spare time or want to do some extra learning, you could visit <https://www.bbc.co.uk/bitesize> or <https://www.thenational.academy/online-classroom> where there are lots of lessons and activities to choose from.

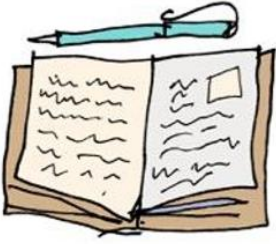
As always, try to read for at least 20 minutes a day and take Accelerated Reader quizzes from home by using this link [Howley Grange Renaissance at home](#) and logging on as usual using your username and password. To check that the book you are reading has a quiz, you can check it using on [Accelerated Reader Bookfinder](#).

Remember to take time to relax, exercise and be kind to yourselves and each other.

Take care and keep smiling,

Mrs Graham and Mrs North

English Activity 4 - Ready to write



Are you ready to present your research and write your information text? Then write it, read it and check it! See you at the end!

You should now be ready to write.

There is a copy of the information text written by Ted Splorer that we used last week on the next slides. Read this through before you start to write as there are lots of ideas for language and sentence structures that you can use.

You also have your picture, your planning sheet and all of the work we have completed in this unit about sentence starters and building cohesion in your writing to help you.

Your information text about your new animal should take a couple of days to write. Remember to include a wide variety of Year 6 punctuation and grammar and make fantastic vocabulary choices to tell the reader all about your creature.

Once you have completed your writing, you need to edit and improve it. We have attached a writing mat to help you to do this. Read your work through very carefully to find opportunities to make it even better than it already is!

When you have finished checking, editing and improving your information text, share it with a grown up at home. We are sure they will be amazed at this new creature roaming the earth!



The Rhiswanozebtah

An information text
by Ted Splorer

The Rhiswanozebtah is an extremely rare, flying creature from the subfamily Rhinofelinae.

Rhiswanozebtahs, although uncommon, are easy to identify, as they are a mixture of four distinct animals. They have the head of a rhino, the body of a swan and zebra and the tail of a cheetah. They have a wingspan of 2.8 metres and can grow to over 5 metres in length, which means they are the largest flying creatures since Pterodactyl dinosaurs. Additionally, their skin tends to be covered in feathers but as they get older, the zebra stripes become more prominent. Their tails are covered in fur and their heads are covered in leathery, grey skin. However, juveniles are born completely bald and develop their fur, feathers and colourings when they mature.

Most Rhiswanozebtahs are found across South Africa, although some have been known to inhabit the deepest rainforests of Venezuela. Amazingly, Rhiswanozebtahs like to burrow and therefore make their homes underground. They use their Rhino tusk to gouge the sun-baked soil and tunnel deep down, to create soil cocoons to sleep in. Some have been known to sleep in trees, but only the largest Kapok branches can support their enormous weight.

All Rhiswanozebtahs are carnivores and only eat meat. Interestingly, their favourite prey is the Springbok antelope, which they descend on from great heights and then wrestle to the ground. They have also been known to devour many smaller mammals such as African Wild Cats and aardvarks. Furthermore, many will guzzle gallons of water a day and sadly, these creatures can cause huge water shortages during the dry season.

As well as being the largest flying animal in the world, the Rhiswanozebtah is also the most talented. The majority can use their vocal cords to create the most beautiful morning chorus as the sun rises. This is with the exception of the young males. Their voices do not develop until they are 15 years old and some explorers have reported that their calls are high-pitched, squeaky and very unpleasant to listen to. In addition to this, and despite their size, all Rhiswanozebtahs are tremendously agile. They can stand on one leg for long stretches of time, roll and flip whilst running or flying and can balance on narrow branches and cliff edges when surveying for prey.

For many years, scientists have been secretly tracking the Rhiswanozebtahs in the wild and now know that there are only approximately 625 roaming the savannahs and nesting in rainforests. Amazingly, however, there have been rare sightings in other parts of the world, so just maybe, the Rhiswanozebtah will be spotted in a neighbourhood near you in the not-so-distant future.

© Maria Richards 2020



Writing Mat - working towards writers

Punctuation Reminders:

A	Capital letters for sentences, initials and proper nouns.
.	Full stops
!	Exclamation marks for exclamations or surprise.
?	Question marks
'	Apostrophes for possession and missing letters.
,	Commas in lists, and to mark parenthesis, fronted adverbials and clauses.
“ ”	Inverted commas for speech (Don't forget the commas too!).

Writing Mat Working towards Year 6

Keep It Neat!

Write in a neat, legible style.

Important Links!

Link your sentences and paragraphs using adverbials:

Time

Subsequently, Later that day,

Finally,

Place

Deep inside the forest, Below the sea,

Frequency

Occasionally, Often,

Contrast/ Cause

On the other hand, In contrast,

As a result, Consequently,

Manner/ Behaviour

Breathing heavily, Waiting anxiously, Without warning, Suspecting the worst,

Use a mixture of simple, compound and multi-clause sentences.

Use a thesaurus to up-level your vocabulary choices.

It's All Relative!

Use a relative pronoun to add a relative clause.

who, which, where, when, whose, that

The Queen, who has reigned for 60 years, has four children.

Hedgehogs eat garden snails, which is important within the food chain.

The stench was so putrid that it made her eyes water.

They had ventured deep into the forest where they began to feel uneasy.

Splendid Subordination!

Use these conjunctions in varied places in your multi-clause sentences:

if because as
before after until
unless since when

Can you use a subordinate clause in different places in your sentences?

Modal Verbs

Use modal verbs to describe how likely something is to happen.

It **might** rain today

You **will not (won't)** get any dinner!



visit [twinkl.com](https://www.twinkl.com)

Writing Mat - working towards writers

Spellings...I need to know some of these:			
accommodate	correspond	hindrance	recognise
accompany	criticise	individual	recommend
according	curiosity	interfere	relevant
achieve	definite	interrupt	restaurant
aggressive	desperate	language	rhyme
amateur	determined	leisure	rhythm
ancient	develop	lightning	sacrifice
apparent	dictionary	marvellous	secretary
appreciate	embarrass	mischievous	shoulder
attached	environment	muscle	sincere
available	equip(-ped)	necessary	sincerely
average	equipment	neighbour	soldier
awkward	especially	nuisance	stomach
bargain	exaggerate	occupy	sufficient
bruise	excellent	occur	suggest
category	existence	opportunity	symbol
committee	explanation	parliament	system
communicate	familiar	physical	temperature
community	foreign	prejudice	thorough
competition	forty	privilege	twelfth
conscience	frequently	profession	variety
conscious	government	programme	vegetable
controversy	guarantee	pronunciation	vehicle
convenience	harass	queue	yacht

Writing Mat - working towards writers

Writing Mat Working towards Year 6

Spellings...I need to know some of these:	
accommodate	correspond
accompany	criticise
according	curiosity
achieve	definite
aggressive	desperate
amateur	determined
ancient	develop
apparent	dictionary
appreciate	embarrass
attached	environment
available	equip(-ped)
average	equipment
awkward	especially
bargain	exaggerate
bruise	excellent
category	existence
committee	explanation
communicate	familiar
community	foreign
competition	forty
conscience	frequently
conscious	government
controversy	guarantee
convenience	harass
	hindrance
	individual
	interfere
	interrupt
	language
	leisure
	lightning
	marvellous
	mischievous
	muscle
	necessary
	neighbour
	nuisance
	occupy
	occur
	opportunity
	parliament
	physical
	prejudice
	privilege
	profession
	programme
	pronunciation
	queue
	recognise
	recommend
	relevant
	restaurant
	rhyme
	rhythm
	sacrifice
	secretary
	shoulder
	sincere
	sincerely
	soldier
	stomach
	sufficient
	suggest
	symbol
	system
	temperature
	thorough
	twelfth
	variety
	vegetable
	vehicle
	yacht

Punctuation Reminders:	
A	Capital letters for sentences, initials and proper nouns.
.	Full stops
!	Exclamation marks for exclamations or surprise.
?	Question marks
,	Apostrophes for possession and missing letters.
,	Commas in lists, and to mark parenthesis, fronted adverbials and clauses.
“ ”	Inverted commas for speech (Don't forget the commas too!).

Splendid Subordination!
Use these conjunctions in varied places in your multi-clause sentences:

if	because	as
before	after	until
unless	since	when

Can you use a subordinate clause in different places in your sentences?

Keep It Neat!
Write in a neat, legible style.

Important Links!
Link your sentences and paragraphs using adverbials:

Time
Subsequently, Later that day, Finally,

Place
Deep inside the forest, Below the sea,

Frequency
Occasionally, Often,

Contrast/ Cause
On the other hand, In contrast, As a result, Consequently,

Manner/ Behaviour
Breathing heavily, Waiting anxiously, Without warning, Suspecting the worst,

Use a mixture of simple, compound and multi-clause sentences.

Use a thesaurus to up-level your vocabulary choices.

It's All Relative!
Use a relative pronoun to add a relative clause.
who, which, where, when, whose, that
The Queen, who has reigned for 60 years, has four children.
Hedgehogs eat garden snails, which is important within the food chain.
The stench was so putrid that it made her eyes water.
They had ventured deep into the forest where they began to feel uneasy.

Modal Verbs
Use modal verbs to describe how likely something is to happen.
It **might** rain today
You **will not (won't)** get any dinner!



visit [twinkl.com](https://www.twinkl.com)

Writing Mat - Expected writers

Writing Mat

Expected Year 6



visit [twinkl.com](https://www.twinkl.com)

Perfect Parenthesis!

Use brackets, commas or dashes to punctuate extra information and asides:

The tomb of Tutankhamen (the Ancient Egyptian pharaoh) was discovered by Howard Carter.

The advancing alien, who was speaking a Martian language, looked dangerous.

The daffodils – my favourite sign of spring – swayed gently in the woodland breeze.

Use a thesaurus to look for more ambitious synonyms. Why use 'frightened' when you could use...

startled alarmed apprehensive

Or 'show' a character's feelings:

his breathing quickened

her heart raced

sweat trickled gasping for air

Check for:

- consistent tense and person
- paragraphs with cohesive links
- subject/verb agreement
- genre features
- layout devices

Spellings... I need to know many of these:

accommodate	correspond	hindrance	recognise
accompany	criticise	individual	recommend
according	curiosity	interfere	relevant
achieve	definite	interrupt	restaurant
aggressive	desperate	language	rhyme
amateur	determined	leisure	rhythm
ancient	develop	lightning	sacrifice
apparent	dictionary	marvellous	secretary
appreciate	embarrass	mischievous	shoulder
attached	environment	muscle	sincere
available	equip(-ped)	necessary	sincerely
average	equipment	neighbour	soldier
awkward	especially	nuisance	stomach
bargain	exaggerate	occupy	sufficient
bruise	excellent	occur	suggest
category	existence	opportunity	symbol
committee	explanation	parliament	system
communicate	familiar	physical	temperature
community	foreign	prejudice	thorough
competition	forty	privilege	twelfth
conscience	frequently	profession	variety
conscious	government	programme	vegetable
controversy	guarantee	pronunciation	vehicle
convenience	harass	queue	yacht

Splendid Subordination!

Use these conjunctions in varied places in your multi-clause sentences:

if	because	as
before	after	until
unless	since	when

Writing Mat -Expected writers

Important Links!

Link your sentences and paragraphs using adverbials:

Time

Subsequently, Later that day,

Place

Deep inside the forest, Below the sea,

Frequency

Occasionally, Often,

Contrast/ Cause

On the other hand, In contrast,

As a result, Consequently,

Manner/ Behaviour

Breathing heavily, Waiting anxiously, Without warning,

Creating Cohesion Top

Tip: Not only can you use pronouns like he, she, it or they instead of repeating a name or names but how about other names or titles too? Here's some examples: the teacher, she, Mrs Smith, the lovely woman or the lady with the long hair.

Be a Punctuation Professional:

A	Capital letters for sentences, initials and proper nouns.
.	Full stops
!	Exclamation marks for exclamations or surprise.
?	Question marks
'	Apostrophes for possession and missing letters.
,	Commas in lists, and sentences.
“ ”	Inverted commas for speech (Don't forget the commas too!).

Active and Passive

Use active and passive sentences appropriately:

Active: In front of millions of screaming fans, the star striker missed a vital penalty.

Passive: In front of millions of screaming fans, a vital penalty was missed by the star striker.

Modal Verbs

Modal verbs describe how likely it is that something will happen.

You **should not (shouldn't)** go to school today.

I **could** have a coffee with you.

Writing Mat - Expected writers

Writing Mat Expected Year 6



visit [twinkl.com](https://www.twinkl.com)

Be a Punctuation Professional:	
A	Capital letters for sentences, initials and proper nouns.
.	Full stops
!	Exclamation marks for exclamations or surprise.
?	Question marks
'	Apostrophes for possession and missing letters.
,	Commas in lists, and sentences.
“ ”	Inverted commas for speech (Don't forget the commas too!).

Important Links!
Link your sentences and paragraphs using adverbials:

Time
Subsequently, Later that day,

Place
Deep inside the forest, Below the sea,

Frequency
Occasionally, Often,

Contrast/ Cause
On the other hand, In contrast,

As a result, Consequently,

Manner/ Behaviour
Breathing heavily, Waiting anxiously, Without warning,

Creating Cohesion Top
Tip: Not only can you use pronouns like he, she, it or they instead of repeating a name or names but how about other names or titles too? Here's some examples: the teacher, she, Mrs Smith, the lovely woman or the lady with the long hair.

Perfect Parenthesis!

Use brackets, commas or dashes to punctuate extra information and asides:

The tomb of Tutankhamen (the Ancient Egyptian pharaoh) was discovered by Howard Carter.

The advancing alien, who was speaking a Martian language, looked dangerous.

The daffodils – my favourite sign of spring – swayed gently in the woodland breeze.

Use a thesaurus to look for more ambitious synonyms. Why use 'frightened' when you could use...

startled alarmed apprehensive

Or 'show' a character's feelings:

his breathing quickened

her heart raced

sweat trickled gasping for air

Check for:

- consistent tense and person
- subject/verb agreement
- paragraphs with cohesive links
- genre features
- layout devices

Active and Passive

Use active and passive sentences appropriately:

Active: In front of millions of screaming fans, the star striker missed a vital penalty.

Passive: In front of millions of screaming fans, a vital penalty was missed by the star striker.

Modal Verbs

Modal verbs describe how likely it is that something will happen.

You **should not (shouldn't)** go to school today.

I **could** have a coffee with you.

Spellings... I need to know many of these:

accommodate	correspond	hindrance	recognise
accompany	criticise	individual	recommend
according	curiosity	interfere	relevant
achieve	definite	interrupt	restaurant
aggressive	desperate	language	rhyme
amateur	determined	leisure	rhythm
ancient	develop	lightning	sacrifice
apparent	dictionary	marvellous	secretary
appreciate	embarrass	mischievous	shoulder
attached	environment	muscle	sincere
available	equip(-ped)	necessary	sincerely
average	equipment	neighbour	soldier
awkward	especially	nuisance	stomach
bargain	exaggerate	occupy	sufficient
bruise	excellent	occur	suggest
category	existence	opportunity	symbol
committee	explanation	parliament	system
communicate	familiar	physical	temperature
community	foreign	prejudice	thorough
competition	forty	privilege	twelfth
conscience	frequently	profession	variety
conscious	government	programme	vegetable
controversy	guarantee	pronunciation	vehicle
convenience	harass	queue	yacht

Splendid Subordination!

Use these conjunctions in varied places in your multi-clause sentences:

- | | | |
|--------|---------|-------|
| if | because | as |
| before | after | until |
| unless | since | when |

Writing Mat - Greater depth writers



Writing Mat Greater Depth Year 6

Spellings... I need to know all of these:

accommodate	correspond	hindrance	recognise
accompany	criticise	individual	recommend
according	curiosity	interfere	relevant
achieve	definite	interrupt	restaurant
aggressive	desperate	language	rhyme
amateur	determined	leisure	rhythm
ancient	develop	lightning	sacrifice
apparent	dictionary	marvellous	secretary
appreciate	embarrass	mischievous	shoulder
attached	environment	muscle	sincere
available	equip(-ped)	necessary	sincerely
average	equipment	neighbour	soldier
awkward	especially	nuisance	stomach
bargain	exaggerate	occupy	sufficient
bruise	excellent	occur	suggest
category	existence	opportunity	symbol
committee	explanation	parliament	system
communicate	familiar	physical	temperature
community	foreign	prejudice	thorough
competition	forty	privilege	twelfth
conscience	frequently	profession	variety
conscious	government	programme	vegetable
controversy	guarantee	pronunciation	vehicle
convenience	harass	queue	yacht

Punctuation Reminders:

A	.	!	?	'	,	" "	()	...	:	;	-
Use a full range of punctuation.											

Check for:

- consistent tense and person
- subject/verb agreement
- paragraphs with cohesive links
- genre features
- layout devices
- pronouns/ nouns for cohesion

Active and Passive

Use active and passive sentences appropriately:

Active: In front of millions of screaming fans, the star striker missed a vital penalty.

Passive: In front of millions of screaming fans, a vital penalty was missed by the star striker.

Create a Mood!

Where appropriate, in formal writing, use the subjunctive mood:

If I were The Queen, ...

Were there to be a change in my circumstances...

Splendid Subordination!

Use these conjunctions in varied places in your multi-clause sentences:

if	because	as
before	after	until
unless	since	when

Use a thesaurus to look for more ambitious synonyms. Why use 'frightened' when you could use...

startled alarmed
apprehensive

Or 'show' a character's feelings:

his breathing quickened
her heart raced
sweat trickled
gasping for air

Perfect Parenthesis!

Use brackets, commas or dashes to punctuate extra information and asides:

The tomb of Tutankhamen (the Ancient Egyptian pharaoh) was discovered by Howard Carter.

The advancing alien, who was speaking a Martian language, looked dangerous.

The daffodils – my favourite sign of spring – swayed gently in the woodland breeze.

Writing Mat - Greater depth writers

Splendid Subordination!

Use these conjunctions in varied places in your multi-clause sentences:

if	because	as
before	after	until
unless	since	when

Use a thesaurus to look for more ambitious synonyms. Why use 'frightened' when you could use...

startled alarmed
apprehensive

Or 'show' a character's feelings:

his breathing quickened
her heart raced
sweat trickled
gasping for air

Perfect Parenthesis!

Use brackets, commas or dashes to punctuate extra information and asides:

The tomb of Tutankhamen (the Ancient Egyptian pharaoh) was discovered by Howard Carter.

The advancing alien, who was speaking a Martian language, looked dangerous.

The daffodils – my favourite sign of spring – swayed gently in the woodland breeze.

Be a Punctuation Professional!

Use semi colons, colons and dashes to mark independent clauses:

It felt like forever- the longest six weeks holiday of all time.

Jack's eyes slowly opened; there was no one to be seen.

They all knew his secret: he was a specialist secret agent.

Important Links!

Link your sentences and paragraphs using time, place, frequency, contrast/cause and manner adverbials, e.g.

Later that day, Deep inside the forest, Occasionally, On the other hand, Consequently, Waiting anxiously,

Managing Formality!

Where appropriate, can you switch between levels of formality from formal to informal?

passive sentence structures

precise, formal word choices

independent clauses marked with semi-colons or colons

A survey has been published this week, which says almost 50% of the UK population believe that there is other intelligent life out there within the universe; in fact, it is a mainstream viewpoint shared across most of the western world. So, what do you think? Martians, aliens, little green men – or whatever you want to call them – after years of searching, have yet to be found anywhere in the universe. Does that mean they ever will, who knows?

question tags

colloquialisms, slang or less formal language

refer directly to the reader

Modal Verbs

Use modal verbs to describe the possibility of something happening.

We **ought** to go and see Granny today.

You **shall not (shan't)** go to the ball.



Spellings... I need to know all of these:

accommodate	correspond	hindrance	recognise
accompany	criticise	individual	recommend
according	curiosity	interfere	relevant
achieve	definite	interrupt	restaurant
aggressive	desperate	language	rhyme
amateur	determined	leisure	rhythm
ancient	develop	lightning	sacrifice
apparent	dictionary	marvellous	secretary
appreciate	embarrass	mischievous	shoulder
attached	environment	muscle	sincere
available	equip(-ped)	necessary	sincerely
average	equipment	neighbour	soldier
awkward	especially	nuisance	stomach
bargain	exaggerate	occupy	sufficient
bruise	excellent	occur	suggest
category	existence	opportunity	symbol
committee	explanation	parliament	system
communicate	familiar	physical	temperature
community	foreign	prejudice	thorough
competition	forty	privilege	twelfth
conscience	frequently	profession	variety
conscious	government	programme	vegetable
controversy	guarantee	pronunciation	vehicle
convenience	harass	queue	yacht

Punctuation Reminders:

A ↪	!	?	'	,	"	()	...	:	;	-
-----	---	---	---	---	---	----	-----	---	---	---

Use a full range of punctuation.

Check for:

- consistent tense and person
- subject/verb agreement
- paragraphs with cohesive links
- genre features
- layout devices
- pronouns/ nouns for cohesion

Active and Passive

Use active and passive sentences appropriately:

Active: In front of millions of screaming fans, the star striker missed a vital penalty.

Passive: In front of millions of screaming fans, a vital penalty was missed by the star striker.

Create a Mood!

Where appropriate, in formal writing, use the subjunctive mood:

If I were The Queen, ...
Were there to be a change in my circumstances...

Splendid Subordination!

Use these conjunctions in varied places in your multi-clause sentences:

- | | | |
|--------|---------|-------|
| if | because | as |
| before | after | until |
| unless | since | when |

Use a thesaurus to look for more ambitious synonyms. Why use 'frightened' when you could use...

- startled
- alarmed
- apprehensive

Or 'show' a character's feelings:

his breathing quickened
her heart raced
sweat trickled
gasping for air

Perfect Parenthesis!

Use brackets, commas or dashes to punctuate extra information and asides:

The tomb of Tutankhamen (the Ancient Egyptian pharaoh) was discovered by Howard Carter.

The advancing alien, who was speaking a Martian language, looked dangerous.

The daffodils – my favourite sign of spring – swayed gently in the woodland breeze.

Be a Punctuation Professional!

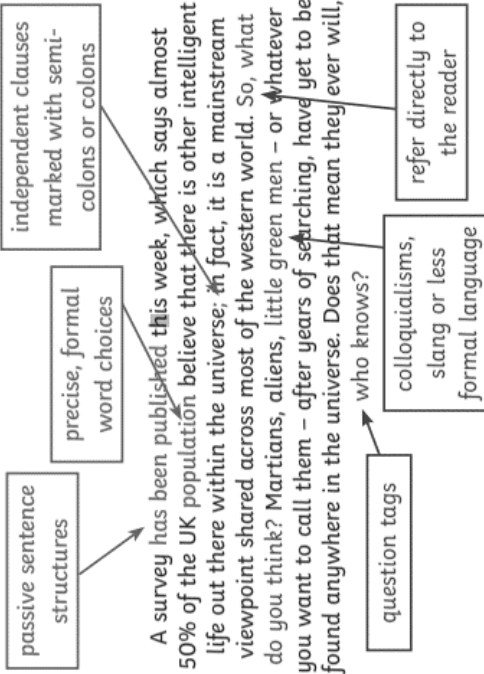
Use semi colons, colons and dashes to mark independent clauses: It felt like forever- the longest six weeks holiday of all time. Jack's eyes slowly opened; there was no one to be seen. They all knew his secret: he was a specialist secret agent.

Important Links!

Link your sentences and paragraphs using time, place, frequency, contrast/cause and manner adverbials, e.g. Later that day, Deep inside the forest, Occasionally, On the other hand, Consequently, Waiting anxiously,

Managing Formality!

Where appropriate, can you switch between levels of formality from formal to informal?

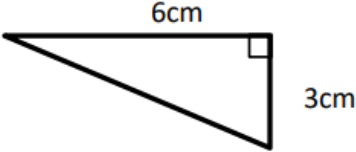


Modal Verbs

Use modal verbs to describe the possibility of something happening.

We **ought** to go and see Granny today.
You **shall not (shan't)** go to the ball.

Maths Activity 4a - Ten in ten

1. Work out 3^3
2. If $5x - 1 = 34$ what is the value of x ?
3. 0.3×40
4. Write as a decimal $7 + \frac{12}{100}$
5. What is 20% of £15?
6. Estimate to the nearest 10:
 14.16×2.93
7. What is the area of this triangle?

8. The radius of a circle is 4.8cm. What is the diameter?
9. In a quiz show, I get 23 out of 50 questions right. What percentage did I get right?
10. I manage to run a mile in 6 minutes. What is my average speed in miles per hour?

Maths Activity -Mental multiplication and division

We have included Learning Reminders that will help you with answering today's questions.

Don't forget that you can also use your Maths revision book to help you too.

There is a ** activity and a *** activity to choose from today (or perhaps even do both!).

If you are still unsure of what to do, there is a 'Bit Stuck' activity to try that might help.

Learning Reminder

Use mental multiplication and division.

List ALL the pairs of factors of 36.

Pair of factors: 4 and 9

$$4 \times 9 = 36$$

$$4 \times 90 = 360$$

$$4 \times 900 = 3600$$

$$4 \times 9000 = 36,000$$

$$36 \div 9 = 4$$

$$360 \div 9 = 40$$

$$360 \div 90 = 4$$

$$3600 \div 9 = 400$$

If we know $4 \times 9 = 36$,
what is 4×90 ?
 4×900 ? 4×9000 ?

What is $36 \div 9$?
So what is $360 \div 9$?
 $360 \div 90$? $3600 \div 9$?

Use one other pair of factors to generate a similar list of facts using place value.

Pair of factors: 3 and 12

$$3 \times 12 = 36$$

$$3 \times 120 = 360$$

$$3 \times 1200 = 3600$$

$$3 \times 12000 = 36,000$$

$$36 \div 12 = 3$$

$$360 \div 12 = 30$$

$$360 \div 120 = 3$$

$$3600 \div 12 = 300$$

Pair of factors: 6 and 6

$$6 \times 6 = 36$$

$$6 \times 60 = 360$$

$$6 \times 600 = 3600$$

$$6 \times 6000 = 36,000$$

$$36 \div 6 = 6$$

$$360 \div 6 = 60$$

$$360 \div 60 = 6$$


$$3600 \div 6 = 600$$

Two examples.

Learning Reminder

Use mental multiplication and division.

Work out 2×456 and
 10×456 .

Now we know these two facts, what others can we work out? 

e.g. We could use the answers to find 4×456 , 5×456 , 20×456 and the associated divisions.

$2 \times 456 = 902$
Double to give
 $4 \times 456 = 1804$; $1804 \div 456 = 4$
 $10 \times 456 = 4560$
Halve to give
 $5 \times 456 = 2280$; $2280 \div 456 = 5$
Double to give
 $20 \times 456 = 9120$; $9120 \div 20$


Find 3×43 , then derive other related multiplications and divisions.

$3 \times 43 = 129$
E.g. use doubling and halving
 $6 \times 43 = ?$ And the related division?
 $30 \times 43 = ?$ And the related division?
 $15 \times 43 = ?$ And the related division?

Use mental multiplication and division.

Today's tip is don't launch straight into a written method. Look at the numbers - you may find it more efficient to use a mental strategy!

3×8742 3×2101 2×2.35 ,
 $450 \div 9$ $4326 \div 3$ $3603 \div 3$

 Think which ones you would solve mentally.

Probably 3×2101 ,
 2×2.35 , $450 \div 9$
and $3603 \div 3$.

Maths Activity 4b**

Using mental strategies to multiply

1. List ALL the factors of 28.

2. Write two common multiples of 3 and 4.

3. Solve these:

$$36 \times 10 \quad 36 \times 2 \quad 36 \times 3$$

4. Use your answers from question 1 to easily solve:

$$36 \times 5 \quad 36 \times 20 \quad 36 \times 4 \quad 36 \times 8 \quad 36 \times 6$$

5. Use similar strategies to solve the following:

$$76 \times 5$$

$$64 \times 20$$

$$53 \times 6$$

$$82 \times 4$$

$$37 \times 8$$

$$153 \times 5$$

$$240 \times 20$$

In each case note down what you did to find the answer,
e.g. 'Multiplied by 10 and then doubled'.

6. Does 24×30 give the same answer as 34×20 ?

Make a prediction.

Use mental strategies to solve each multiplication and test your prediction.

Challenge

Can you find a strategy for quickly solving these:

$$36 \times 50 \quad 36 \times 200 \quad 36 \times 60$$

(Hint! Look at what you already know.)

Maths Activity 4b***

Multiples, factors, multiplication and division

1. Write ALL the factors of 24.
2. If a number has 10 as a factor, what other three factors must it have?
3. If a number has 6 as a factor, what other three factors must it have?
4. Write two common multiples of 4 and 5.
5. Write three common multiples of 2, 3 and 5.
6. $2 \times 6 \times 5$
7. $15 \times 3 \times 2$
8. $4 \times 5 \times \square = 120$
9. $7 \times \square \times 5 = 350$
10. 720×4
11. $\square \times 80 = 480$
12. $450 \div 90$
13. $7 \times \square = 3500$
14. 8×23
15. 5×348
16. 25×36
17. $186 \div 5$
18. $284 \div 20$

A Bit Stuck - mental multiplication and division

Things you will need:

- A pencil
- A large piece of paper



What to do:

- Write out the 6 times table on the left of the piece of paper.
- Next to this write out the 60 times table. Remember - you can multiply by 10 to get the answers.
- Now write out the 600 times table!

$1 \times 6 = 6$	$1 \times 60 = 60$	$1 \times 600 = 600$	
$2 \times 6 = 12$	$2 \times 60 = 120$	$2 \times 600 = 1200$	
$3 \times 6 = 18$			
$4 \times 6 = \dots$			

S-t-r-e-t-c-h:

Use more Mammoth tables facts to find the missing numbers:

$8 \times \square = 160$

$7 \times \square = 2100$

$\square \times 5 = 4000$

$\square \times 9 = 630$

Maths Activity 4c - Check your understanding

Write the correct symbol (<, > or =) in each box to make the statements correct:

$12 \times 12 \square 14 \times 10$

$80 \div 20 \square 90 \div 30$

$240 \div 6 \square 270 \div 9$

$800 \times 5 \square 70 \times 50$

Sophia has the digit cards $\boxed{6}$, $\boxed{7}$ and $\boxed{5}$.

She makes a 2-digit number and a 1-digit number.

She multiplies them together.

Her answer is a multiple of 10.

What could Sophia's multiplication be?

Loose Parts Challenge:

Make a ball run with a difference!



What could you use?

A ball of some kind!

A range of small and large materials
e.g. recycling, scrap construction,
materials, natural items, and other
bits 'n' bobs!

Instructions basic level

Activity

To design and build a tennis ball run.
Here are our specifications but you can choose your own:

- The tennis ball run must be on at least two levels and at different heights.
- It must change direction and involve at least one right angle.
- It must have a start and finish point.
- The tennis ball must be able to travel from beginning to end on its own.

The scale of your ball run is up to you!

General Learning Outcomes and possible extensions

This is a fun practical STEM activity with problem-solving, trial and error and evaluation at its core. It could also be linked to **forces and motion** in **Science** work.

Add more twists, turns or levels to your ball run.

Can you ball run go from indoors to outdoors, or vice versa?

Play based learning

All

A
B
C



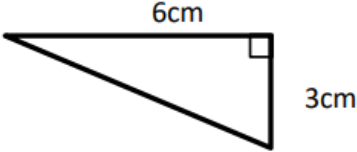
Learning through Landscapes

For more resources visit www.ltl.org.uk/free-resources

© This activity sheet was created by Learning through Landscapes Registered charity no. in England and Wales 803270 and in Scotland SCO38890



ANSWERS Maths Activity 4a - Ten in ten

1.	Work out 3^3	27
2.	If $5x - 1 = 34$ what is the value of x ?	$x = 7$
3.	0.3×40	12
4.	Write as a decimal $7 + \frac{12}{100}$	7.12
5.	What is 20% of £15?	£3
6.	Estimate to the nearest 10: 14.16×2.93	40
7.	What is the area of this triangle? <div style="text-align: center; margin-top: 10px;">  </div>	9cm^2
8.	The radius of a circle is 4.8cm. What is the diameter?	9.6cm
9.	In a quiz show, I get 23 out of 50 questions right. What percentage did I get right?	46%
10.	I manage to run a mile in 6 minutes. What is my average speed in miles per hour?	10 mph

ANSWERS Maths Activity 4c - Check your understanding

Write the correct symbol (<, > or =) in each box to make the statements correct:

$$12 \times 12 > 14 \times 10$$

$$80 \div 20 > 90 \div 30$$

$$240 \div 6 > 270 \div 9$$

$$800 \times 5 > 70 \times 50$$

A child consistently using < rather than > is most likely reading the symbol 'the wrong way around'.

Sophia has the digit cards 6, 7 and 5.

She makes a 2-digit number and a 1-digit number.

She multiplies them together.

Her answer is a multiple of 10.

What could Sophia's multiplication be?

76×5 or 75×6 . Since $7 \times 6 = 42$ and $7 \times 5 = 35$ the 6 and 5 must each be 1s digits for the answer to be a multiple of 10.

ANSWERS Maths Activity 4b** and 4b***

- Factors of 28: 1, 28; 2, 14; 4, 7
- Common multiples of 3 and 4, e.g. 12 and 24, i.e. multiples of 12
- $36 \times 10 = 360$
 $36 \times 2 = 72$
 $36 \times 3 = 108$
- $36 \times 5 = 180$
 $36 \times 20 = 720$
 $36 \times 4 = 144$
 $36 \times 8 = 288$
 $36 \times 6 = 216$
- $76 \times 5 = 380$
 $64 \times 20 = 1280$
 $53 \times 6 = 318$
 $82 \times 4 = 328$
 $37 \times 8 = 296$
 $153 \times 5 = 765$
 $240 \times 20 = 4800$
- $30 \times 24 = 720$ $20 \times 34 = 680$

Challenge

$$36 \times 50 = 180 \quad 36 \times 200 = 7200 \quad 36 \times 60 = 2160$$

Students should notice that these multiplications are similar to the first three multiplications in Question 2, except the second number has been multiplied by ten. This means that students simply need to add on a zero to the answers they already have.

- 1, 2, 3, 4, 6, 8, 12, 24
- 1, 2, 5
- 1, 2, 3
- 20, 40
- 30, 60, 90
- $2 \times 6 \times 5 = 60$
- $15 \times 3 \times 2 = 90$
- $4 \times 5 \times 6 = 120$
- $7 \times 10 \times 5 = 350$
- $720 \times 4 = 2880$
- $6 \times 80 = 480$
- $450 \div 90 = 5$
- $7 \times 500 = 3500$
- $8 \times 23 = 184$
- $5 \times 348 = 1740$
- $25 \times 36 = 900$
- $186 \div 5 = 37.2$
- $284 \div 20 = 14.2$