St Denys Primary School

Year 5 and Year 6

Home Learning

Week beginning: 29th June 2020

Creativity, Choice, Challenge
Achievement for All

Year 5 and Year 6 - Home Learning

Whilst we are not expecting you to replicate school at home, it will be important that you all try to do some work each school day to keep your skills up.

And don't forget to stay active!

In this booklet you will find a range of different activities and tasks that you can choose to complete during the week.

There is also a separate booklet for each class that will contain your new spelling words and your daily Times Table Rockstar challenge. These can be collected from the school office or downloaded online.

Each morning your teacher will still be saying 'Hello' on Class Dojo. You'll also be able to ask any questions or just them about what you have been up to! As your teachers will be in school, remember they might not be able to respond straight away. You will still be able to post things to your Class Dojo portfolio but it might not always be your teacher who approves and leaves comments for you.

Class 5, if you want to try some online lessons, check out BBC Bitesize.

Year 5/ P6 online lessons

Monday 29 June - Friday 3 July

BBC Bitesize Daily lessons

Monday	Tuesday	Wednesday	Thursday	Friday
English Ads and brochures	**English** Maps, charts and presentations	**English** Posters and leaflets	**English** Writing instructions	**English** Reading lesson: Artemis Fowl by Eoin Colfer
Maths Measure angles up to 180 degrees	**Maths** Draw angles up to 180 degrees	**Maths** Measure and identify angles on a straight line	**Maths** Measure and identify angles around a point	**Maths** Challenge of the week
History Benin	**Geography** The Galápagos Islands	**Science** Evolution	**German** Days, months and time	**Design and Technology** Design skills

Find all this content and more at: **bbc.co.uk/bitesize/dailylessons**

Lessons are available daily. Here is the schedule for this week.

Class 6, if you want to try some online lessons, check out BBC Bitesize.

Year 6/ P7 online lessons

Monday 29 June - Friday 3 July

BBC Bitesize
Daily lessons

Monday	Tuesday	Wednesday	Thursday	Friday
English Ads and brochures	**English** Maps, charts and presentations	**English** Posters and leaflets	**English** Writing instructions	**English** Reading lesson: Artemis Fowl by Eoin Colfer
Maths Introducing ratio, including the language and symbol	**Maths** Represent and calculate ratio	**Maths** Use scale factors to enlarge shapes	**Maths** Solve problems involving ratio in different contexts	**Maths** Challenge of the week
History Benin	**Geography** The Galápagos Islands	**Science** Evolution	**German** Days, months and time	**Design and Technology** Scales of production

Find all this content and more at: **bbc.co.uk/bitesize/dailylessons**

Lessons are available daily. Here is the schedule for this week.

Year 5 and Year 6 Spelling Words

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

Colour in the word if you can read it, spell it and use it in your own sentence.

Y5/6 Spellings Word Search

u	u	e	x	i	s	t	e	n	c	e	t
f	i	z	d	e	f	i	n	i	t	e	b
l	r	a	t	t	a	c	h	e	d	x	g
l	h	m	r	x	p	l	m	w	d	c	c
t	y	t	q	e	j	j	l	u	l	e	l
u	t	r	m	m	c	v	g	h	o	l	a
m	h	p	o	n	a	o	v	z	n	l	n
t	m	o	z	f	l	d	g	h	e	e	g
o	c	c	u	p	y	x	x	n	n	n	u
g	j	i	r	d	z	e	q	v	i	t	a
i	n	d	i	v	i	d	u	a	l	s	g
k	y	f	o	r	e	i	g	n	k	x	e

rhythm
language
excellent
recognise
definite

occupy
foreign
existence
individual
attached

Y5/6 Spellings Word Search

p	o	a	v	a	i	l	a	b	l	e	u
u	q	d	m	n	a	y	c	l	n	z	v
f	o	p	t	y	l	s	o	i	r	p	e
e	s	a	r	z	s	t	n	g	e	r	g
o	h	r	l	c	i	o	s	h	s	i	e
z	o	l	h	c	g	m	c	t	t	v	t
l	u	i	e	o	n	a	i	n	a	i	a
s	l	a	n	d	a	c	e	i	u	l	b
g	d	m	i	y	t	h	n	n	r	e	l
x	e	e	m	k	u	l	c	g	a	g	e
n	r	n	j	y	r	m	e	p	n	e	n
g	n	t	t	k	e	f	x	z	t	r	a

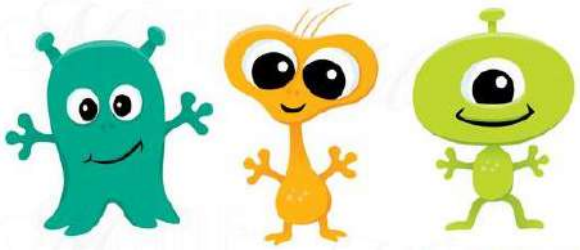
available
signature
conscience
lightning
privilege

stomach
parliament
shoulder
restaurant
vegetable

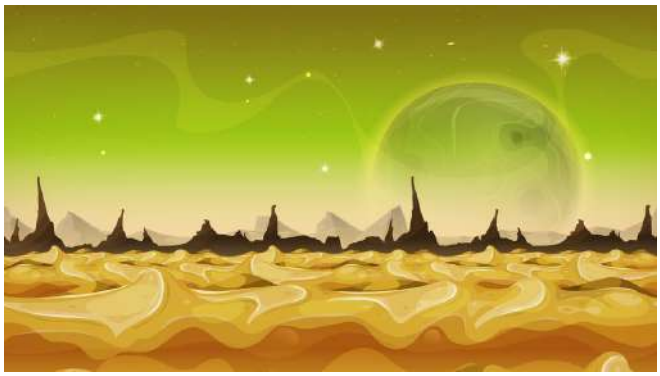
Weekly Writing Challenge

Let's plan, write and publish a short story! The idea for your story is '**Alien Planet**'.

Think about the following:



- How you landed on the planet.
- Describe what you saw when you stepped out onto the planet surface.
- Are there any plants?
- Is there any water?
- How far can you see?
- Are there hills or is it flat?
- Does anything make you think there are creatures here?
- Can you breathe? Do you need a space suit?
- Are you floating? Is there enough gravity to keep you on the ground?
- Can you hear or smell anything?
- What sort of temperature is it?
- Are you frightened?
- Who or what do you meet?



Remember to:

- Plan your story with a beginning, middle and end. How are you going to hook the reader at the start? You could write down notes, draw a picture or create a storyboard.
- Organise your ideas into paragraphs.
- Choose your words carefully to entertain the reader.
- Write in sentences. Think about some of the things we have used in class like inverted commas or fronted adverbials.
- Pay attention to your spelling and punctuation.
- Read, check and edit your work carefully.
- Decide how you are going to publish your story: writing it out, typing it, making a book?

Alien Planet

1.

2.

3.

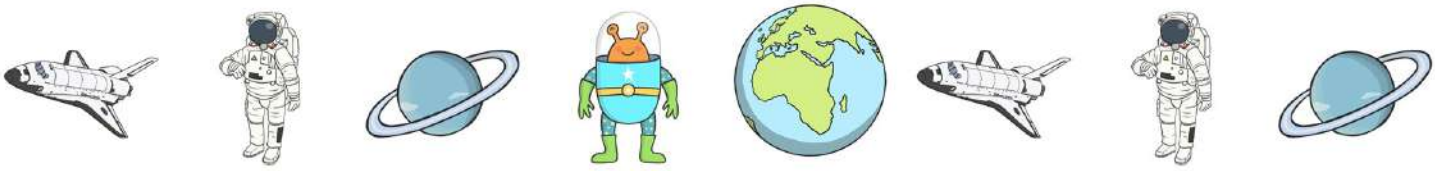
4.

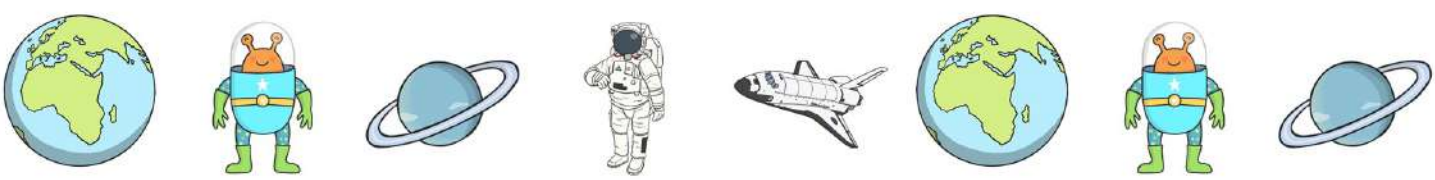
5.

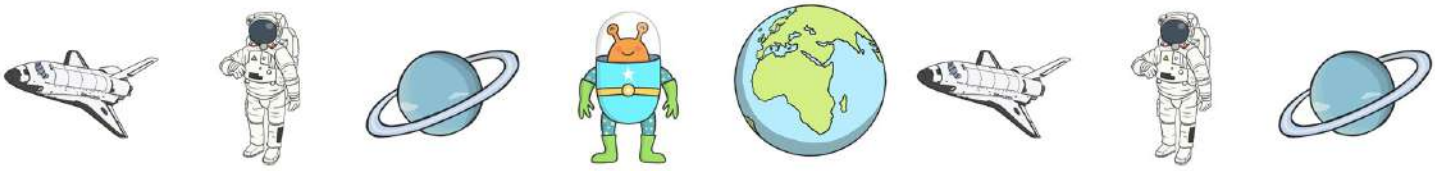
6.

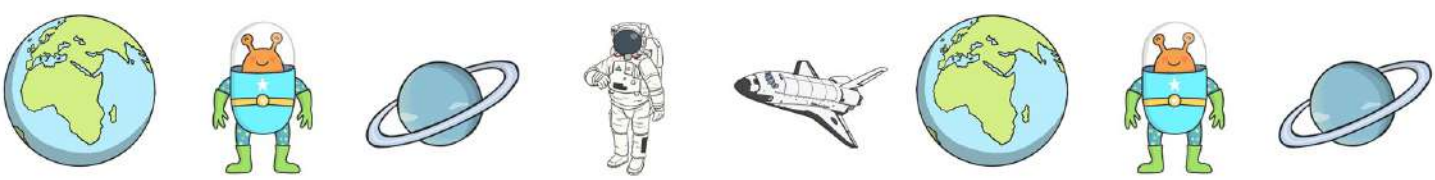
7.

8.









Daily News

Inspirational World News

First Person to Visit Space and Deepest Point in the Ocean

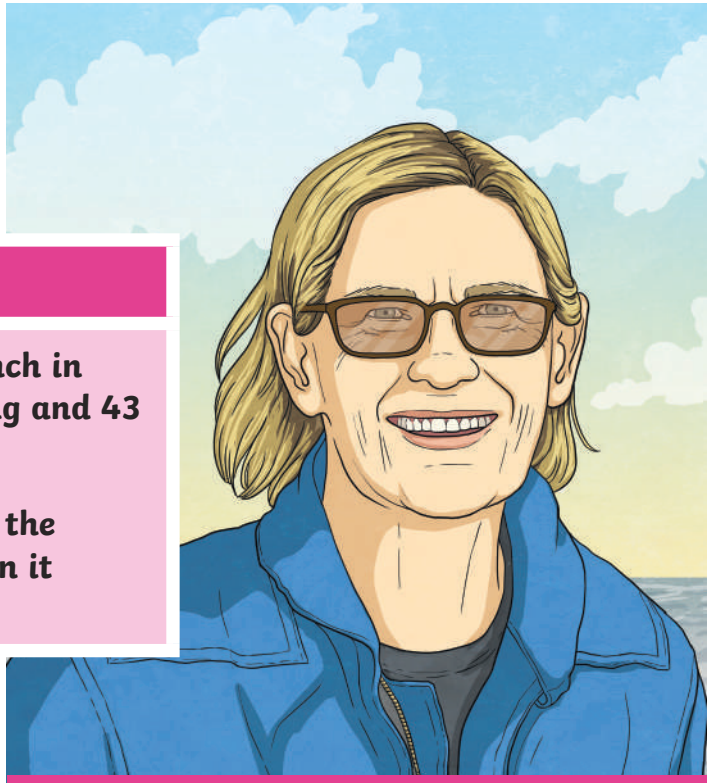


Illustration: Kathy Sullivan.

What is the Mariana Trench?

- **The Mariana Trench is a crescent-shaped trench in the West Pacific. It is roughly 1580 miles long and 43 miles wide.**
- **The trench is near to the Mariana Islands, in the Pacific Ocean, and the deepest known point in it (around 11 000m) is called Challenger Deep.**

Over 550 people have been into space; only eight have been to Challenger Deep, the deepest known point in the ocean. Now, though, Kathy Sullivan has become the first person to do both!

Kathy Sullivan visited Challenger Deep in the Mariana Trench. The trench lies about 200 miles from the small island of Guam, in the west of the Pacific Ocean. In doing so, Kathy becomes the first person to have done so who has also been into space.

As only the eighth person to ever reach the deepest part of the ocean, she was also the first woman to do so. However, Kathy is used to breaking records.

In 1978, she was in the first NASA class of women astronauts. Then, in 1984, she became the first American woman to complete a spacewalk.

However, rather than a spacecraft, she set her most recent record in a specially built submersible called Limiting Factor.

Kathy slowly descended for almost 11 000m into the Mariana Trench. The trench is so deep that if you were to drop Mount Everest down to Challenger Deep, the mountain's peak would still be more than 2000m below the surface of the water!

The journey down took around four hours. But, they couldn't stay for long because of the enormous water pressure down there. At that depth, it is like having 2200 tonnes of pressure pushing down on the small underwater vehicle.

Kathy said that as an "oceanographer and astronaut, this was an extraordinary day". She went on to say it was, "a once in a lifetime day, seeing the moonscape of the Challenger Deep and then comparing notes with my colleagues on the ISS [International Space Station]".

This is because after making an equally slow ascent back to the ship on the surface, Kathy put in a call to the International Space Station!

Glossary

submersible	A small craft designed to operate under water.
descended	To have fallen, moved or gone down.
oceanographer	Someone who studies the marine environment.
ascent	To have climbed, risen or gone up.

Questions

1. How long did it take for the Limiting Factor to reach the deepest point in the ocean?

_____

2. When Kathy said, "a once in a lifetime day, seeing the moonscape of the Challenger Deep and then comparing notes with my colleagues on the ISS", what do you think she meant by the word 'moonscape'?

_____

_____

_____

3. Number these events 1 to 4 in the order they happened. One has been done for you.

- [ ] Kathy Sullivan reached Challenger Deep.
- [ ] Kathy Sullivan became the first American woman to do a spacewalk.
- [ ] Kathy Sullivan phoned the astronauts on the International Space Station.
- [1] Kathy Sullivan began astronaut training.

4. In the paragraph beginning 'The journey down took…', find and copy a word that means 'very large'.

_____

5. Why do you think the author chose to use an exclamation mark at the end of this sentence: "Because after making an equally slow ascent back to the ship on the surface, Kathy put in a call to the International Space Station!" **Tick two**.

- ○ They wanted to show anger.
- ○ They wanted to show astonishment.
- ○ Because this is a silly thing for her to have done.
- ○ Because this is an exciting thing for her to have done.

6. Summarise the key information in this story in 15 words or fewer.

_____

_____

_____

DICTIONARY CHALLENGE

Use a dictionary to complete the following challenges!

Can you find...

...a six-letter word beginning with **p** and ending in **t**?

...a five-letter word beginning with **sq**?

...a seven-letter word beginning with **s** and ending with **g**?

...an eight-letter word beginning with **h** and ending in **n**?

...a word longer than 6 letters that begins with **w** and contains three different vowels?

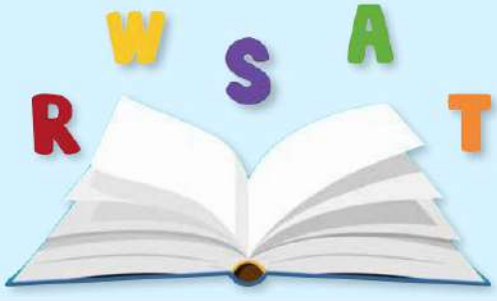
...a word longer than 5 letters that begins with **f** and contains '**ee**'?

...a seven-letter word beginning **and** ending with **r**?

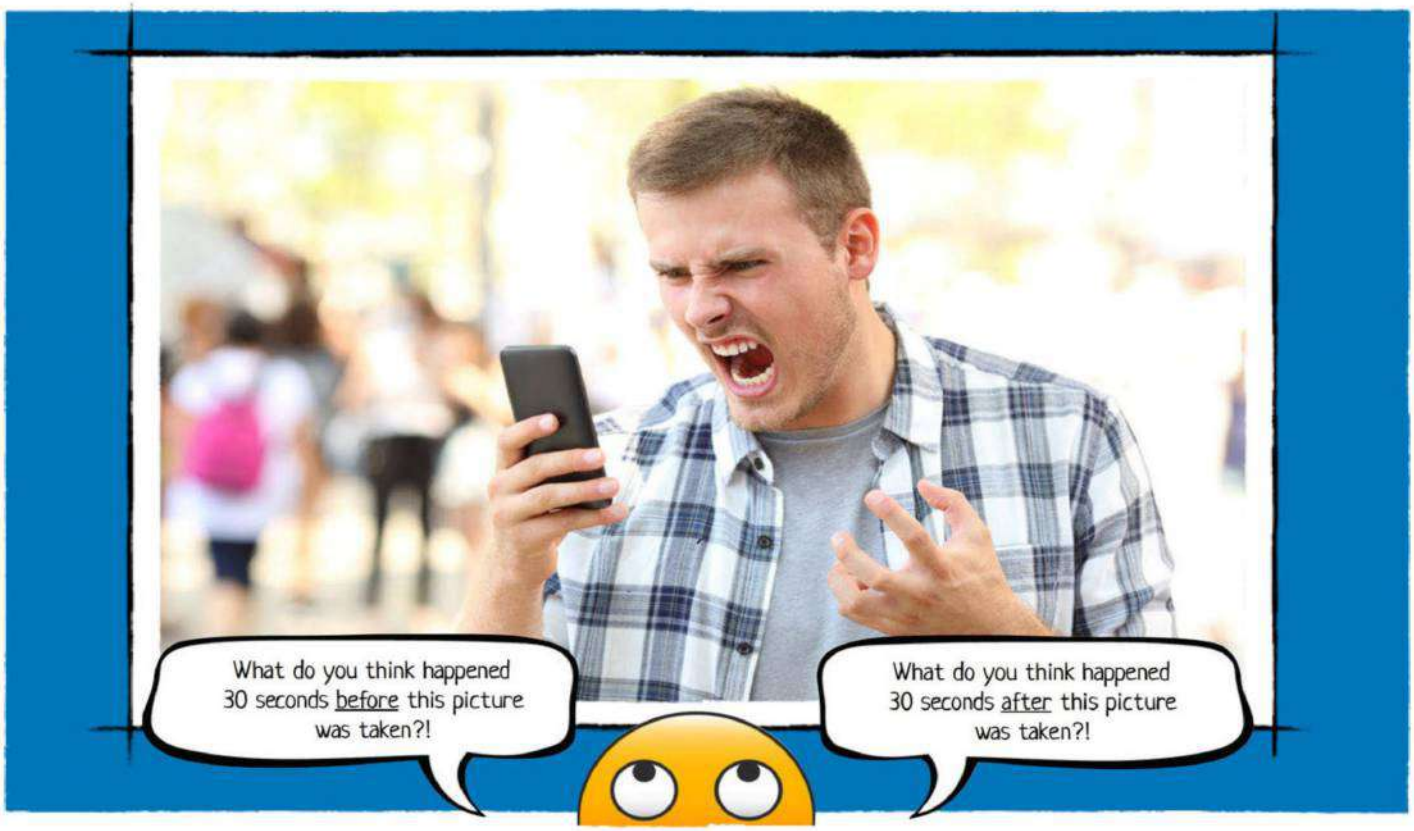
...three words containing the letter **z** (but not at the beginning)?

Can you find a word which contains **all** of the vowels?

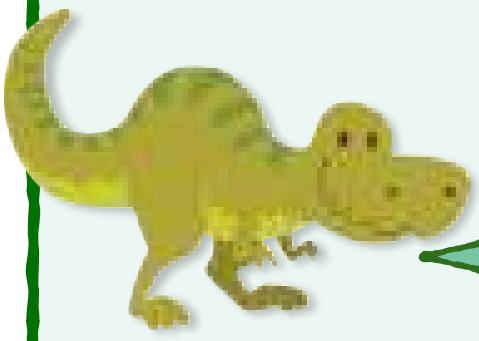
Make sure you know the definitions of all of these words!



What happened next?



SYNONYM WORD SEARCH

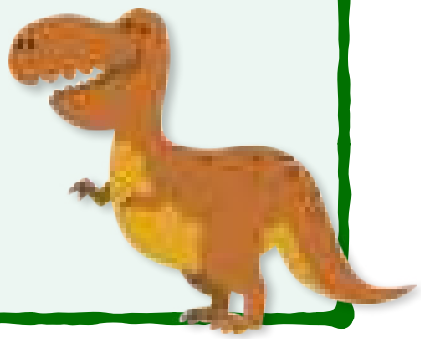


This word search contains **14** synonyms for the boring word '**said**'. Can you find them all? You can use a **thesaurus** to help you search for any unfamiliar words.

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

What do you call a dinosaur who always uses boring words?

A Dinobore!



Wordle

Follow the word rule in each of the categories and using the letters below, see if you can fill them up! You can only use each letter once per word and each letter needs to connect to the next. Have fun!

o	c	d	i
h	u	l	b
s	e	w	t
o	t	n	y

Find four words with five or more letters.

Find a number.

Find six words with three or more letters.

Find a word that rhymes with ‘mouse’.

Find a word that rhymes with ‘mouse’.

Find a number.

Find a colour.

Find a compass point.

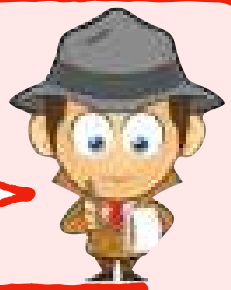
Find a body part.

Find a food.

Find a synonym for a fight.

Game 1

How many different words can you create using adjoining letters? The letters must touch each other but can join in any direction – horizontally, vertically or diagonally. You cannot use the same letter cube more than once in a single word.



S	T	V	E
K	E	N	O
T	P	U	Y
E	O	M	P

POINTS GUIDE	
3 letter words	1 point
4 letter words	2 points
5 letter words	3 points
6 letter words	4 points
7+ letter words	5 points

_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Now add up your total points score using the Points Guide and record it in the box.

TOTAL POINTS

SYNONYM WORD SEARCH

This word search contains **13** synonyms for the boring word '**walk**'. Can you find them all? You can use a **thesaurus** to help you search for any unfamiliar words.

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

What do you call a dinosaur with a very good vocabulary?

A Thesaurus!

Reading Response (Fiction)

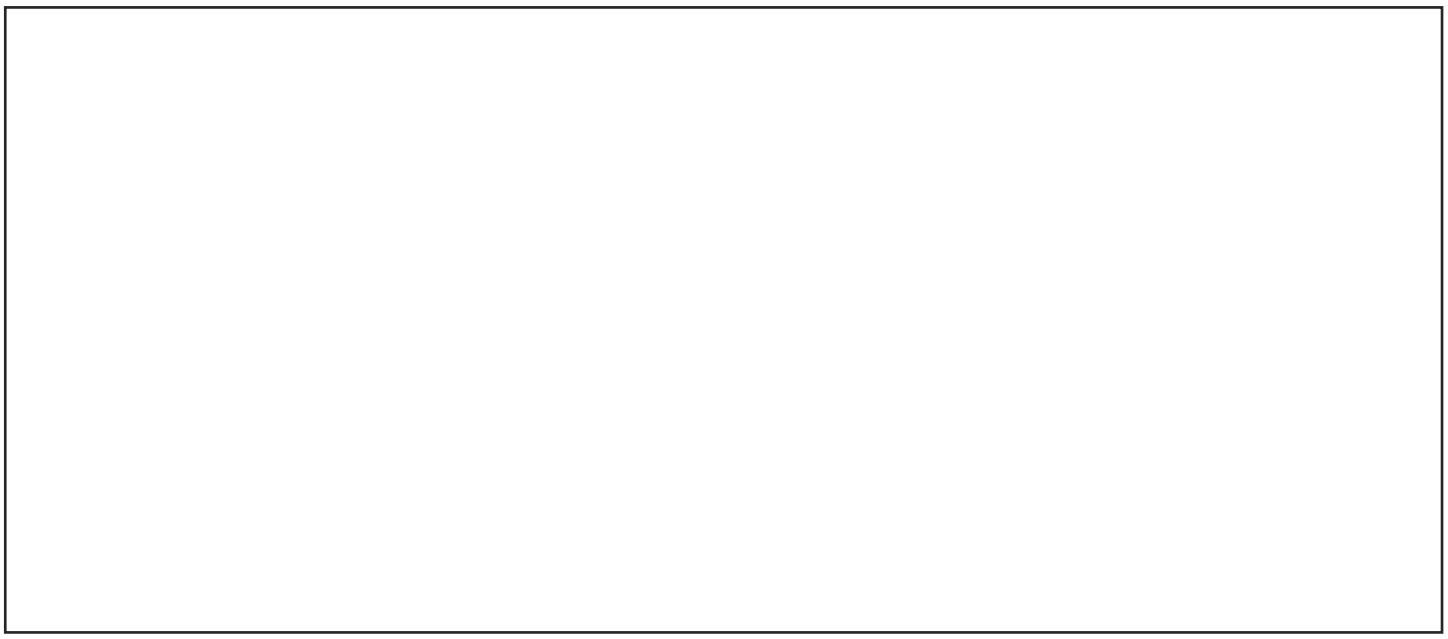
Use a book you have read recently to complete the following pages.

twinkl
visit twinkl.com

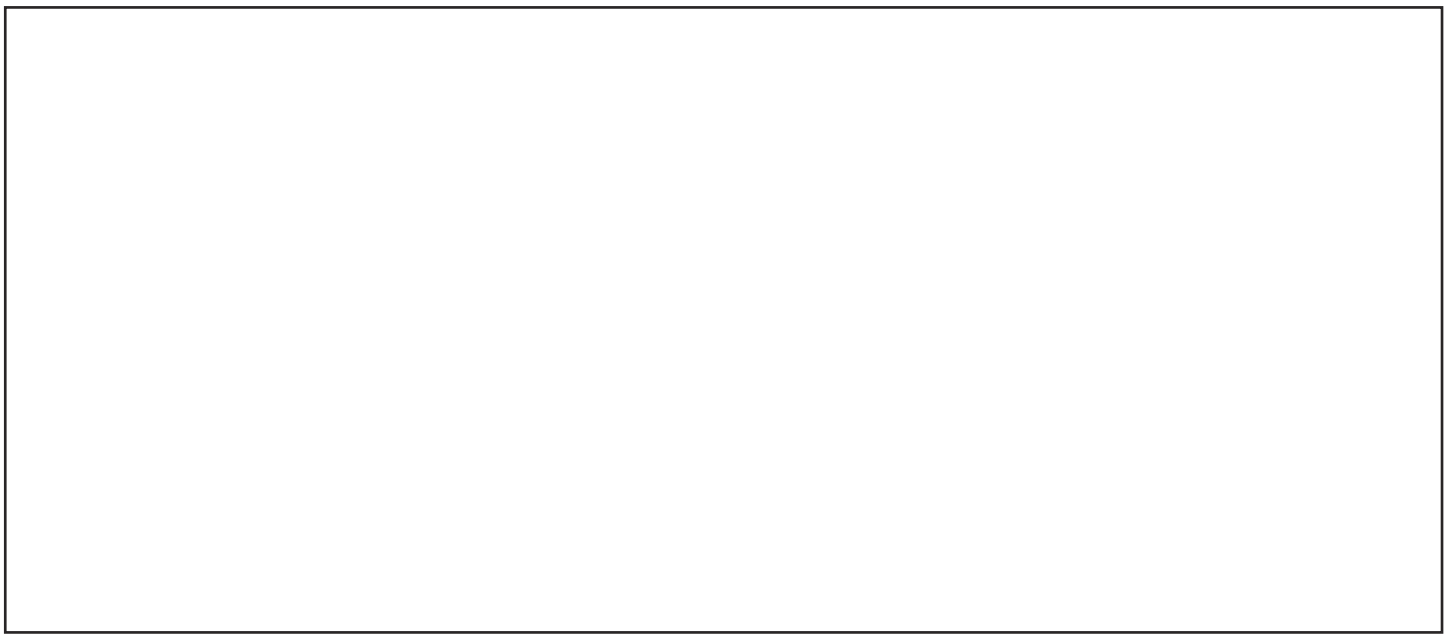
What was your favourite part of the story? Why?

Draw a picture of your favourite part:

Draw a picture of your favourite character from the story. Write a description of who they are and what you have learnt about them from your reading.



Draw a picture of one of the settings in the story and then write a description of it and what happened there.



Find 10 adjectives in the book.

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____

Make up sentences describing characters or situations from the story using at least two of these adjectives in each one.

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

Find five interesting words (maybe new to you) in the book. Use a dictionary to find their definitions.

1. _____

   Definition:

   _____

   _____

2. _____

   Definition:

   _____

   _____

3. _____

   Definition:

   _____

   _____

4. _____

   Definition:

   _____

   _____

5. _____

   Definition:

   _____

   _____

Use some of the words in sentences of your own.

_____

_____

_____

_____

_____

Write a paragraph trying to convince someone to read this book. Remember to use **persuasive language.**

Draw a story map for this book.

Write an alternative ending for the book.

Illustrate your ending

Write a detailed book review. How many stars would you give the book? Why?

Book Title

_____

Author _____

Illustrator _____

Gernre (tick as many as apply to your book)

o fiction	o scary	o animal story
o non-fiction	o fairytale	o biography
o fantasy	o adventure	o historical
o humour	o sports	o mystery

o other _____

Plot

Event 1 _____

_____

_____

Event 2 _____

_____

_____

Event 3 _____

_____

_____

Setting

_____

_____

Picture of the setting

Character

Name _____

Personality _____

_____

_____

How I feel about this character and why: _____

_____

_____

_____

_____

Cause	Effect

My Star Rating

Why I rated the book

_____ stars: _____

_____

This book made me feel

_____ because _____

_____

_____

Draw how you feel!

Daily News

Environment UK News

UK Doesn't Use Coal Power for Two Months

What are fossil fuels?

- **Fossil fuels are non-renewable fuels, such as coal, oil and gas.**
- **They can all be burned to create energy which can be used to generate electricity. They also produce greenhouse gases which cause climate change.**

Due to the lockdown, there has been less demand for electricity. It has also been a record-breakingly sunny May causing more solar power to be produced.

Therefore, last week a significant breakthrough occurred as Britain went for two months without using coal to create energy.

This is remarkable because coal has been used in powering Britain for over 130 years. In fact, even ten years ago, Britain got around 40% of its power from coal-fired power plants.

However, instead of coal, Britain has recently been using more renewable sources of energy such as solar, wind and tidal power. These are called renewable because they don't run out. They also don't release greenhouse gases as they make energy.

When burnt in a power plant, coal heats water up to create steam. This steam is able to power large turbines, which spin to create huge amounts of electricity. This is the electricity we use to power our homes, TVs and games consoles.

However, when coal is burned, it releases carbon dioxide into the atmosphere. Carbon dioxide is a greenhouse gas which contributes to climate change.

Climate change is when the climate of an area changes. Scientists from all over the world have seen climates changing and becoming warmer.

Photo: Solar power involves using energy from the sun to create electricity.

This 'global warming' is caused because there are too many greenhouse gases in the atmosphere.

Because of the impact of climate change, the UK government is aiming to reach net zero carbon emissions by 2050.

The UK government says that this means that carbon released into the atmosphere by things like cars and factories must be completely balanced out by things which capture the carbon. To do this, the UK government wants to plant more trees and move away from using fossil fuels to create electricity.

Glossary

greenhouse gas	A gas that adds to the greenhouse effect.
turbine	A machine in which a wheel or rotor with blades on is made to spin by a fast-moving liquid or gas.
climate	The weather conditions in an area over a long period.
emissions	When gases are released.

Questions

1. Name a fossil fuel mentioned in the story.

2. Why did the warm weather in May help?

3. Tick to show whether each statement is a fact or an opinion.

	Fact	Opinion
Coal is bad.		
Coal is a fossil fuel.		
Tidal energy is renewable.		
Not using coal for two months is a huge achievement.		

4. 'In fact, even ten years ago, Britain got 40% of its power solely from coal.' This suggests that...

   - ○ Coal powered Britain alone.
   - ○ There were other power sources.
   - ○ Coal is useless.
   - ○ Solar power is more useful.

5. How do you feel climate change campaigners feel about this news?

6. Summarise the story in 15 words or fewer.

Year 5
Place Value Assessment

1 What number is represented below?

10,000s	1,000s	100s	10s	1s
10,000	1,000 1,000 1,000 1,000 1,000	100 100 100 100 100 100 100 100 100	10	1 1 1 1 1

_____

Georgia says that the number is multiple of 5
Is Georgia correct? Explain your answer.

2 Complete the missing numbers.

47,603 = 40,000 + _____ + 600 + 3

_____ = 50,000 + 300 + 70 + 4

80,000 + 7,000 + _____ = 88,300

3 In a game, people have some play money to buy houses.
Each person starts with the following play money.

£100,000	£10,000	£1,000
£100,000	£10,000	£1,000
£100,000	£10,000	
£100,000	£10,000	
	£10,000	

How much money do they each start with?

£_____

4 Circle **all** the numbers that round to 4,750 to the nearest 10

4,752 748 4,748 4,745 4,755

5 What is the missing number?

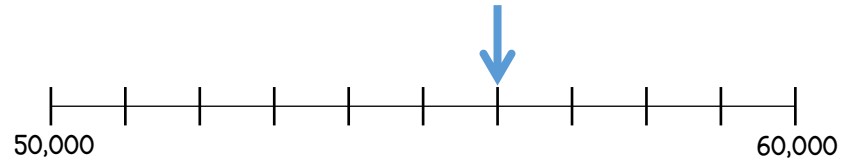
305,700		
300,000	?	700

_____

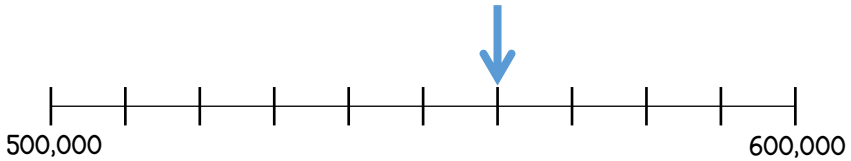
6 Which is the greater number? Explain your answer.

XCIX CX

7 What numbers are shown by the arrows?



_____



_____

8 Complete the following using <, > or =

12,900 ◯ 2,980

57,000 ◯ 570,000

999,999 ◯ 1 million

9 Arrange the digit cards to make an **odd** number between 70,000 and 100,000

1	4	6	8	9

_____

Round your number to the nearest 1,000

_____

Round your number to the nearest 10,000

_____

10 Complete the missing numbers.

19	10,019		30,019		

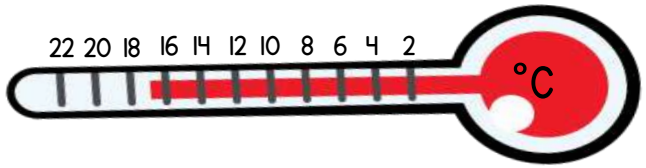
11 Put the following weights is order starting with the smallest.

A	700,000 kg	B	87,000 kg
C	Ninety-four thousand kg	D	399,458 kg

_____ _____ _____ _____

smallest

12 The thermometer shows the temperature in London in May.



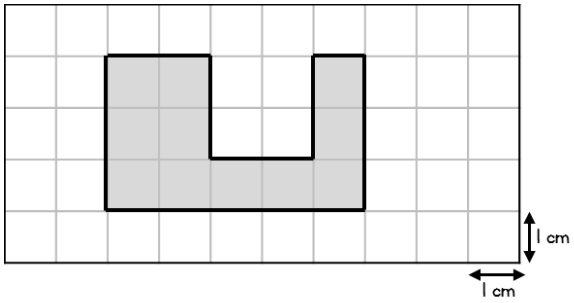
In January the temperature was 20 degrees colder.
What was the temperature in London in January?

_____ °C

Year 5

Area and Perimeter

1 The shape is drawn on a centimetre square grid.



What is the area of the shape?

_____ cm^2

What is the perimeter of the shape?

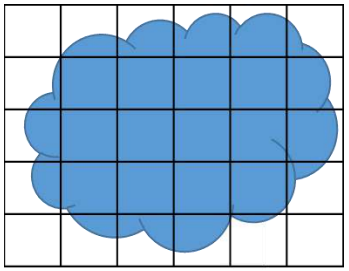
_____ cm

2 Sally says,

The two rectangles have the same area, so they must have the same perimeter.

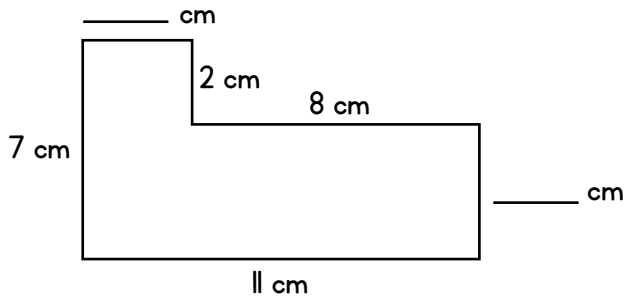
Explain why Sally is wrong.

3 Estimate, in squares, the area of the shape.



_____ squares

4

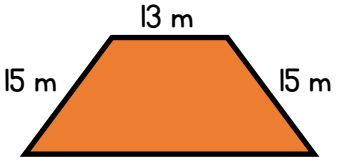


Complete the missing lengths.

Work out the perimeter of the shape.

_____ cm

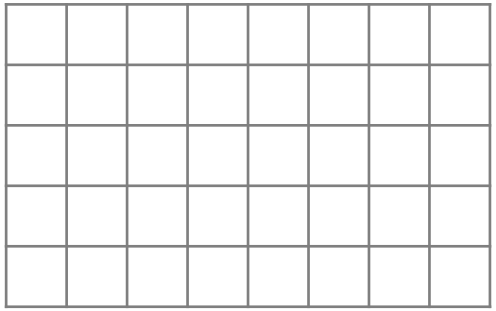
5 The perimeter of the shape is 60 m.



Find the length of the missing side.

_____ m

6 Draw a rectangle which has an area of 12 squares and a perimeter of 16 squares.

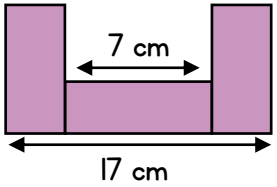


7 The square and the regular hexagon have the **same** perimeter.

Work out the length of one side of the square.

cm

8 The shape is made up of three identical rectangles.



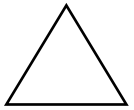
Work out the area of the shape.

cm^2

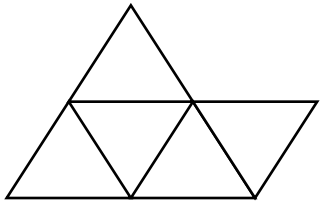
9 Ian wants to paint a wall measuring 3 metres by 7 metres.
Each tin of paint covers 5 m^2.
How many tins of paint will Ian need?

tins

10 An equilateral triangle has a perimeter of 21 cm.



John uses 5 of these triangles to make this shape.



What is the perimeter of the new shape he has made?

cm

Year 5

Multiplication and Division

1 Calculate.

$312 \times 3 =$ _____

$312 \div 3 =$ _____

$1{,}371 \times 7 =$ _____

$798 \div 5 =$ _____

2 Complete the calculation.

		2	□	7
×				6
	1	□	4	2

3 Jack is thinking of a number.
When he multiplies his number by 7, he gets 161
What is Jack's number?

_____

4 Complete the grid for the multiplication 36×14

	30	6
10	300	
4		

Use the grid to work out 36×14

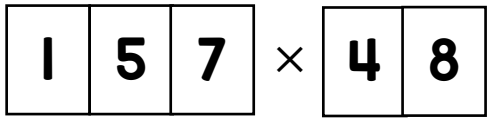
_____

5 In a theatre there are 45 rows of chairs.
There are 36 chairs in each row.
How many chairs are there altogether?

_____ chairs

6 Jen and Max each have 5 digit cards.

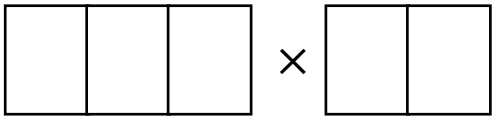
Jen arranges her cards to make a 3-digit and 2-digit number.



She multiplies the two numbers together.
What is her answer?

_____

Max arranges his cards to make a 3-digit and 2-digit number.
He multiplies his numbers and his answer ends in a 5
What could the 3-digit and 2-digit number be?



7 A jacket costs £52
Eight jackets and three skirts cost £653
How much does a skirt cost?

£ _____

8 Some cards are shared between 7 boxes.
There are 63 cards in each box and 4 left over.
How many cards were shared between the boxes?

_____ cards

9 Work out 25 × 87 × 4
Explain or show your method.

_____

Take One Number...

Think of a 3-digit number, and write it in the cauldron.

Write it in words:

Place Value:

Hundreds: _____

Tens: _____

Ones: _____

Double it:

Halve it:

Round to the nearest:

10: _____

100: _____

More than:

10 more: _____

100 more: _____

Less than:

10 less: _____

100 less: _____

Multiply by:

10: _____

100: _____

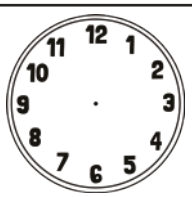
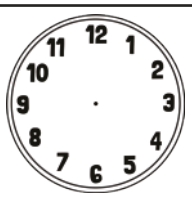
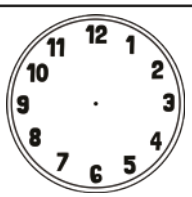
Divide by:

10: _____

100: _____

Write a word problem that has this number as the answer:

Converting Time Worksheet

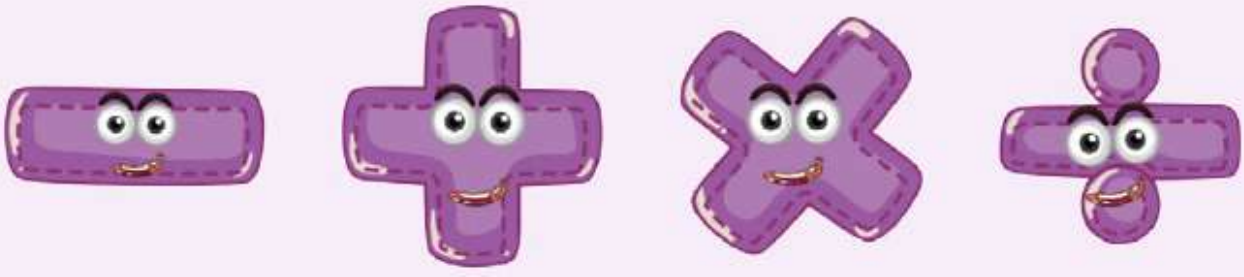
Time in Words	24 Hour Clock	12 Hour Clock	Analogue
seven o'clock in the evening	19:00	7:00p.m.	
		11:00a.m.	
	14:15		
		8:20p.m	
midday			
		6:40p.m.	
midnight			
seven minutes to eight at night			

Vowel-less Operations!

Below are the names of different words associated with the four operations
However, the vowels are missing! Work out each word from the consonants given.

Good luck! Or should I say, gd lck!

dvd	pls	tms	lss
sbtrct	dcrs	prdct	nvrs
mltply	ncrs	qtnt	ttl
mns	rmndr	shr	qls
sm	mr	dffrnc	dd



Sudoku 6 x 6 Puzzles

Each row and column contains all the digits 1 to 6.

	2		3	6	
			5		2
1	5				4
2		3	1	5	6
4	3		6	1	
6	1		4	2	

	5			4	3
6				1	5
		6		3	
		3		6	
4	6	5	3		1
3			4	5	

6	3	2	4		
4		1	6	3	
	6	3	1		
1		5		6	
5			3		4
					6

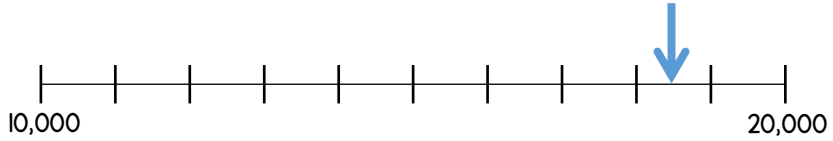
5	2	4		3	
			5		2
	4		6	1	5
6	5	1		2	
			2	5	3
2			4	6	1

1	3	2			4
4	5	6		3	2
				1	
5	4	1	6		
2		5	3		1
3	1	4	2		

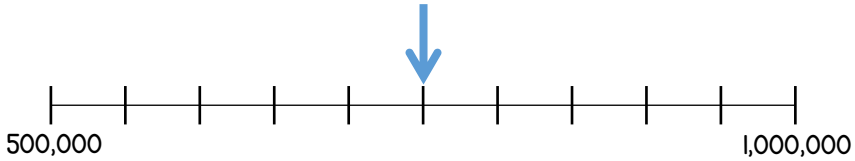
	6		5		
	4	3		2	
				5	
6					4
					1
	3		4		5

Year 6
Place Value Assessment

1 What numbers are shown by the arrows?



_____



_____

2 Here are some digit cards.

2	5	8	3

Fred makes the largest 3 digit **even** number he can make.
He rounds his number to the nearest 10
What is his answer?

_____

3 Complete the missing numbers.

127,084 = 100,000 + 20,000 + _____ + 80 + 4

_____ = 7000 + 500 + 3

4 The length of four rivers is shown in the table.

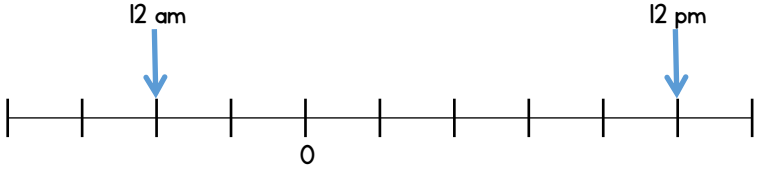
River	Length in km
Mississippi	6,275
Saint Lawrence	3,058
Nile	6,853
Rio Grande	3,057

Put the rivers in order of their length starting with the shortest.

Round the length of the Mississippi river to the nearest 100 km.

_____ km

5 The number line shows the temperature at 12 am and 12 pm on Monday in a town.
The difference between the temperatures is 14°C.



What is the temperature at 12pm?

_____ °C

6 Here are 3 digit cards.

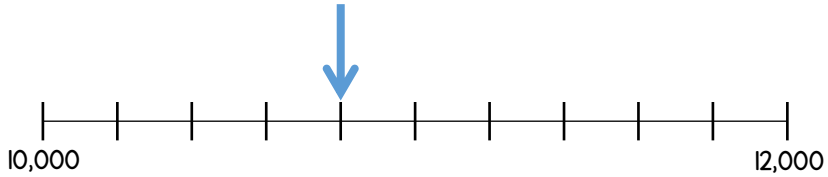
4	8	9

Use each card once to make the statement correct.

	0	3	>	8		

Arrange all 6 cards to make a number between 395,000 and 425,000

7 Nick marks a number on the number line.



Draw an arrow to show 100 more than Nick's number.

8 Here is part of a number sequence.
The sequence increases by 50 each time.

6,250	6,300	A	B	C	D	E	F	G

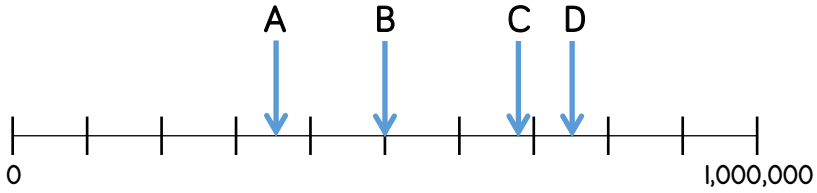
Which box will have the first number greater than 6,500?

_____

9 What is the **smallest** digit that can be used to make this statement correct?

34,3 __ 8 > 34,359

10 Some numbers are marked on a number line.



Which numbers round to 1 million to the nearest million?

_____

Which number rounds to 700,000 to the nearest thousand?

_____

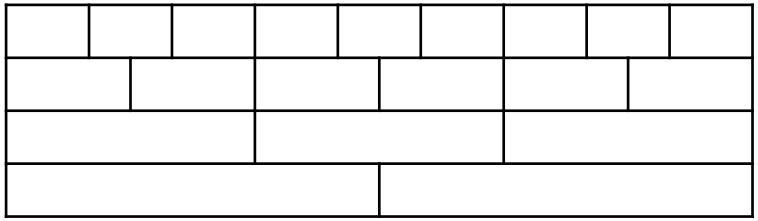
11 What is 35 ones + 35 tens?

_____

Year 6

Fractions (+ and −) A

1



Use the fraction bars to simplify the fractions.

$\frac{6}{9} =$ $5\frac{3}{6} =$

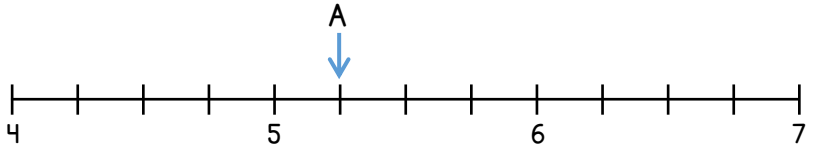
2 Max says $\frac{30}{50}$ in its simplest form is $\frac{15}{25}$

Is Max correct?

Yes No

Explain your answer.

3



What number is the arrow pointing to?

Draw an arrow to the number that is $\frac{3}{4}$ less than A.

What number is $1\frac{1}{2}$ greater than A?

4 Tick the statements that are true.

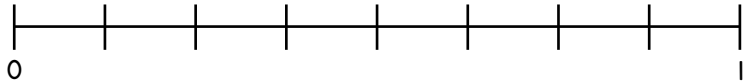
$\frac{3}{5}$ is greater than $\frac{3}{7}$ ☐ $1\frac{3}{8}$ is less than $\frac{7}{8}$ ☐

$\frac{2}{8}$ is equal to $\frac{5}{20}$ ☐ $2\frac{1}{4}$ is greater than $\frac{11}{4}$ ☐

5 Write the fractions in order from smallest to largest.

You may use the number line to help you.

$\frac{3}{4}$ $\frac{5}{8}$ $\frac{3}{8}$ $\frac{1}{16}$



_____ _____ _____ _____

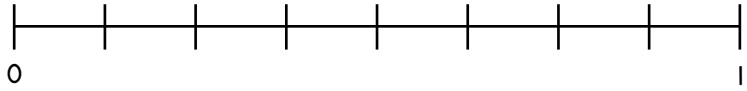
6 Calculate

$\frac{2}{3} + \frac{1}{9} =$

$\frac{5}{6} - \frac{3}{4} =$

$2\frac{3}{5} + 1\frac{1}{2} =$

7 Draw arrows from each fraction to its position on the number line.



$\frac{36}{48}$ $\frac{33}{66}$ $\frac{29}{29}$

8 Jenny reads $\frac{1}{4}$ of her book on Monday.

She reads $\frac{1}{3}$ of the book on Tuesday.

On Wednesday she reads the rest of the book.

What fraction of the book did she read on Wednesday?

9 Three friends share a chocolate bar.

Laura gets $\frac{3}{9}$, Phil gets $\frac{4}{12}$ and Matt gets $\frac{7}{21}$

Did they share the chocolate bar equally?

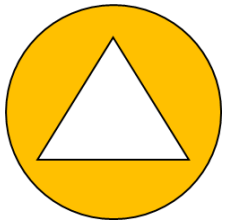
Explain your answer.

10 A circle has an area of $18\frac{1}{6}$ cm^2.

Max cuts a triangle from the circle.

The triangle has an area of $5\frac{2}{3}$ cm^2.

What is the area of the circle that is left?



cm^2

Year 6

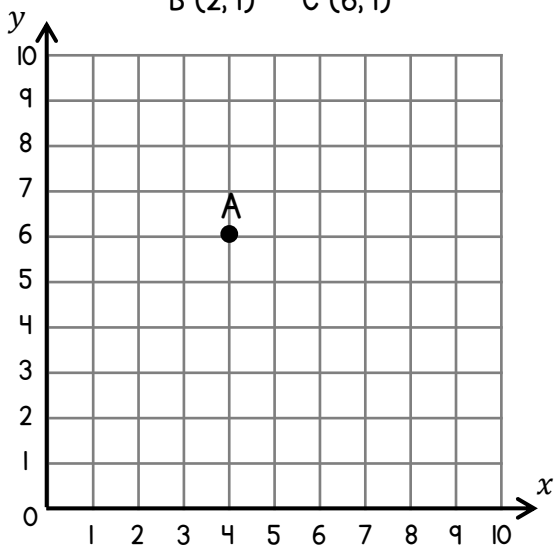
Position and Direction

1 Write down the coordinates of point A.

(,)

Plot the points B and C on the grid.

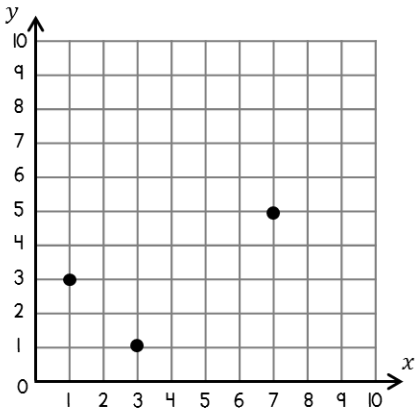
B (2, 1) C (6, 1)



Join up the 3 points to make a triangle.

What type of triangle have you drawn?

2 Teddy is drawing a rectangle on a grid.



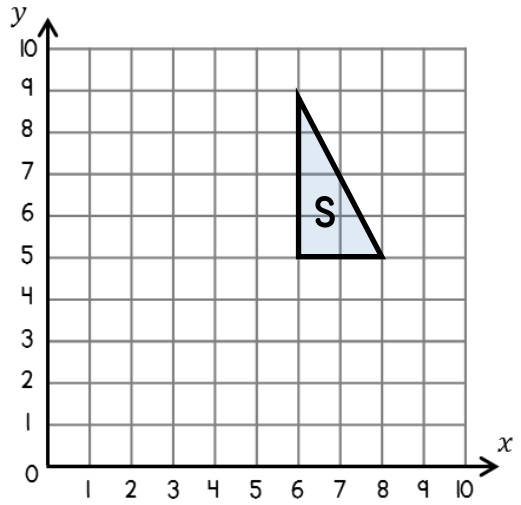
Plot the final vertex of the rectangle.

What are the coordinates of the final vertex?

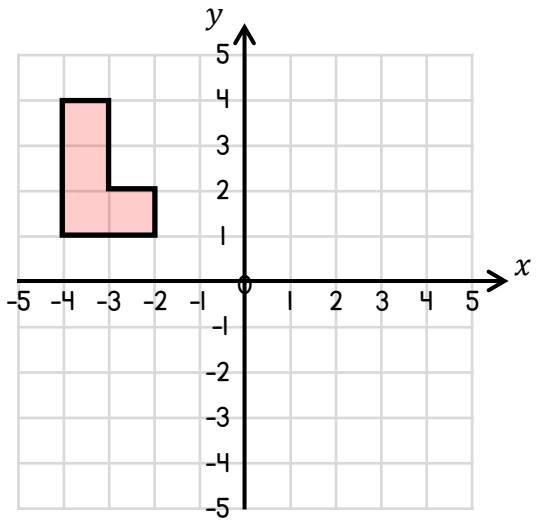
(,)

3 Translate triangle S, 2 left and 3 down.

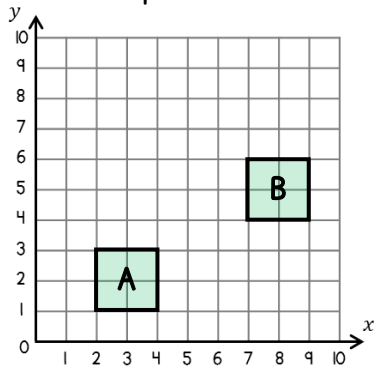
Label your triangle T.



4 Reflect the shape in the y axis.



5 Eva translates shape A, 3 right and 1 up.
She labels her new shape B.

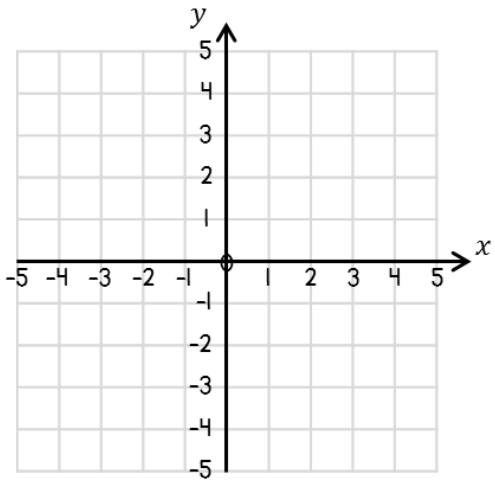


Explain why Eva is wrong.

What are the coordinates of the correctly translated shape?

(,) (,) (,) (,)

6 On the grid, draw the shape with vertices at
(-2, -3), (-4, -3) and (-4, -1)



Reflect the shape in the x axis, label your shape P.

Translate shape P, 6 right and 2 down.
Label your new shape Q.

7 A square is drawn on a grid.
Two of its vertices are at (3,3) and (7,7)
What is the perimeter of the square?

_____ units

Answers

Use your **green** and **pink** highlighters to check your answers just like you would in the classroom.

If an answer is not correct, look again at your question so you understand what mistake you have made.

Answers

1. How long did it take for the Limiting Factor to reach the deepest point in the ocean?
   It took around four hours.

2. When Kathy said, "a once in a lifetime day, seeing the moonscape of the Challenger Deep and then comparing notes with my colleagues on the ISS". what do you think she meant by the word 'moonscape'?
   Accept an answer which refers to either that the ocean floor must have looked similar to the surface of the Moon or that it must be rocky and empty down there (similar to the Moon).

3. Number these events 1 to 4 in the order they happened. One has been done for you.

   [3] Kathy Sullivan reached Challenger Deep.
   [2] Kathy Sullivan became the first American woman to do a spacewalk.
   [4] Kathy Sullivan phoned the astronauts on the International Space Station.
   [1] Kathy Sullivan began astronaut training.

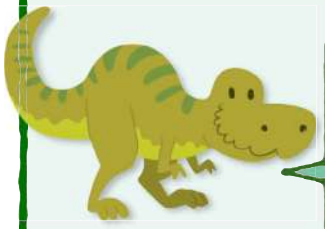
4. In the paragraph beginning 'The journey down took...', find and copy a word that means 'very large'.
   enormous

5. Why do you think the author chose to use an exclamation mark at the end of this sentence: "Because after making an equally slow ascent back to the ship on the surface, Kathy put in a call to the International Space Station!" **Tick two**.

   ○ They wanted to show anger.
   ✓ **They wanted to show astonishment.**
   ○ Because this is a silly thing for her to have done.
   ✓ **Because this is an exciting thing for her to have done.**

6. Summarise the key information in this story in 15 words or fewer.
   Accept an answer which includes the main facts from the story, e.g. Kathy Sullivan is the only person who has been to space and Challenger Deep.

SYNONYM WORD SEARCH ANSWERS

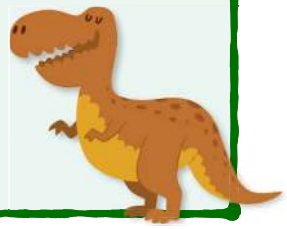


This word search contains **14** synonyms for the boring word '**said**'. Can you find them all? You can use a **thesaurus** to help you search for any unfamiliar words.

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

What do you call a dinosaur who always uses boring words?

A Dinobore!



SYNONYM WORD SEARCH ANSWERS

This word search contains **13** synonyms for the boring word '**walk**'. Can you find them all? You can use a **thesaurus** to help you search for any unfamiliar words.

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

What do you call a dinosaur with a very good vocabulary?

A Thesaurus!

Answers

1. Name a fossil fuel mentioned in the story.
   Accept coal, oil or gas.

2. Why did the warm weather in May help?
   The warm weather in May helped because solar power was easier to make.

3. Tick to show whether each statement is a fact or an opinion.

	Fact	Opinion
Coal is bad.		✓
Coal is a fossil fuel.	✓	
Tidal energy is renewable.	✓	
Not using coal for two months is a huge achievement.		✓

4. 'In fact, even ten years ago, Britain got 40% of its power solely from coal.' This suggests that...

   ○ Coal powered Britain alone.
   ⊘ **There were other power sources.**
   ○ Coal is useless.
   ○ Solar power is more useful.

5. How do you feel climate change campaigners feel about this news?
   Accept any reasonable answer which suggests they will find the news encouraging, e.g. I think that climate change campaigners will be pleased that coal has not been used for two months because it means that carbon emissions have decreased.

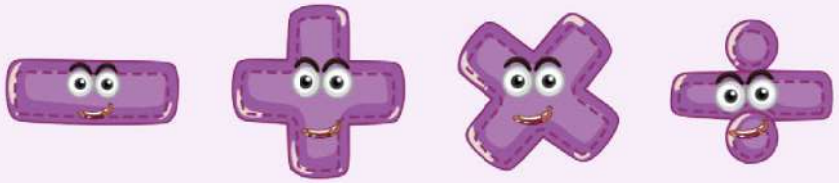
6. Summarise the key information in the story in 15 words or fewer.
   Accept any reasonable summary that refers to the following and is 15 words or fewer in length, e.g. The UK has not used coal to power electricity for two months.

Vowel-less Operations!

Below are the names of different words associated with the four operations However, the vowels from each word are missing! Work out each word from the consonants given.

Good luck! Or should I say, gd lck!

dvd → divide	pls → plus	tms → times	lss → less
sbtrct → subtract	dcrs → decrease	prdct → product	nvrs → inverse
mltply → multiply	ncrs → increase	qtnt → quotient	ttl → total
mns → minus	rmndr → remainder	shr → share	qls → equals
sm → sum	mr → more	dffrnc → difference	dd → add



Year 5
Place Value Assessment

1 What number is represented below?

10,000s	1,000s	100s	10s	1s
10,000	1,000 1,000 1,000 1,000	100 100 100 100 100 100 100 100 100	10	1 1 1 1 1

16,915

Georgia says that the number is multiple of 5
Is Georgia correct? Explain your answer.

Yes she is correct because the number has a multiple of 5 in its 1s place.
Yes because it is in the 5 times table.

2 Complete the missing numbers.

47,603 = 40,000 + 7,000 + 600 + 3

50,374 = 50,000 + 300 + 70 + 4

80,000 + 7,000 + 1,300 = 88,300

3 In a game, people have some play money to buy houses.
Each person starts with the following play money.

£100,000 £100,000 £100,000 £100,000
£10,000 £10,000 £10,000 £10,000 £10,000
£1,000 £1,000

How much money do they each start with?

£ 452,000

4 Circle **all** the numbers that round to 4,750 to the nearest 10

4,752 748 4,748 4,745 4,755

5 What is the missing number?

305,700		
300,000	?	700

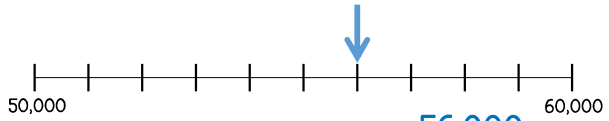
5,000

6 Which is the greater number? Explain your answer.

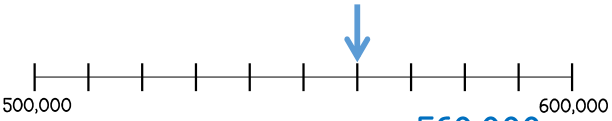
XCIX CX

XCIX is 99 and CX is 110. Explanation needed for the mark.

7 What numbers are shown by the arrows?



56,000



560,000

8 Complete the following using <, > or =

12,900 > 2,980
57,000 < 570,000
999,999 < 1 million

9 Arrange the digit cards to make an **odd** number between 70,000 and 100,000

1 4 6 8 9

Range of possible answers. All will be begin with 8 or 9.

Round your number to the nearest 1,000

Round your number to the nearest 10,000

10 Complete the missing numbers.

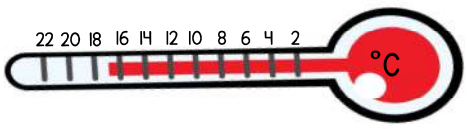
19	10,019	20,019	30,019	40,019	50,019

11 Put the following weights is order starting with the smallest.

A 700,000 kg
B 87,000 kg
C Ninety-four thousand kg
D 399,458 kg

B C D A
smallest

12 The thermometer shows the temperature in London in May.

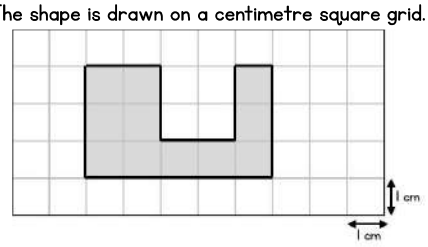


In January the temperature was 20 degrees colder.
What was the temperature in London in January?

-3 °C

Year 5
Area and Perimeter

1 The shape is drawn on a centimetre square grid.



What is the area of the shape?

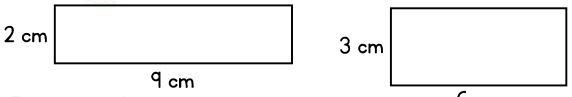
11 cm^2

What is the perimeter of the shape?

20 cm

2 Sally says,

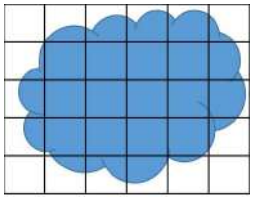
The two rectangles have the same area, so they must have the same perimeter.



Explain why Sally is wrong.

The perimeter of the first rectangle is 22 cm and the perimeter of the second rectangle is 18 cm.

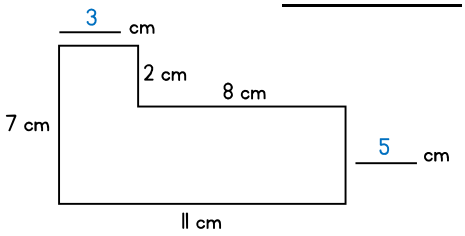
3 Estimate, in squares, the area of the shape.



Award 1 mark for evidence of an effective method to count the squares.

19 squares

4

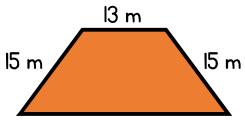


Complete the missing lengths.

Work out the perimeter of the shape.

36 cm

5 The perimeter of the shape is 60 m.

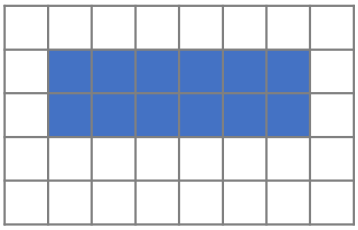


Find the length of the missing side.

Award 1 mark for adding the 3 lengths and then subtracting from the total but with an error in the calculation

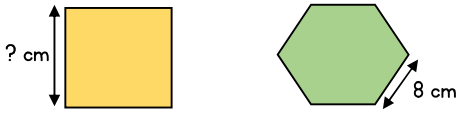
17 m

6 Draw a rectangle which has an area of 12 squares and a perimeter of 16 squares.



Award 1 mark for a rectangle with area of 12 squares but not a perimeter of 16 or vice versa.

7 The square and the regular hexagon have the **same** perimeter.

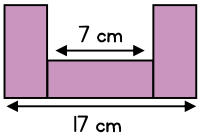


Work out the length of one side of the square.

Award 1 mark for working out the perimeter of the hexagon is 48 cm

12 cm

8 The shape is made up of three identical rectangles.



Work out the area of the shape.

Award 1 mark for finding the missing length of each rectangle is 5 cm

Award 2 marks for then calculating the area of each rectangle is 35 cm^2

105 cm^2

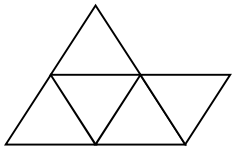
9 Ian wants to paint a wall measuring 3 metres by 7 metres.
Each tin of paint covers 5 m^2.
How many tins of paint will Ian need?

Award 1 mark for calculating the area of the wall is 21 m^2

5 tins

10 An equilateral triangle has a perimeter of 21 cm.

John uses 5 of the triangles to make this shape.



What is the perimeter of the new shape he has made?

Award 1 mark for working out that each side of a triangle is 7 cm but then making a calculation error when adding.

49 cm

Year 5
Multiplication and Division

1 Calculate.

312 × 3 = 936

312 ÷ 3 = 104

1,371 × 7 = 9,597

798 ÷ 5 = 159 r3

2 Complete the calculation.

		2	0	7
×				6
	1	2	4	2

4

Allow 1 mark if 1 error has been made.

3 Jack is thinking of a number.
When he multiplies his number by 7, he gets 161
What is Jack's number?

23

4 Complete the grid for the multiplication 36 × 14

	30	6
10	300	60
4	120	24

Allow 1 mark if 1 error has been made.

Use the grid to work out 36 × 14

504

5 In a theatre there are 45 rows of chairs.
There are 36 chairs in each row.
How many chairs are there altogether?

1 mark for correct method with 1 error.

1,620 chairs

6 Jen and Max each have 5 digit cards.

1	4	5	7	8

Jen arranges her cards to make a 3-digit and 2-digit number.

1	5	7	×	4	8

She multiplies the two numbers together.
What is her answer?

1 mark for correct method with 1 error.

7,536

Max arranges his cards to make a 3-digit and 2-digit number.
He multiplies his numbers and his answer ends in a 5
What could the 3-digit and 2-digit number be?

8	7	5	×	4	1

Any combination where one of the ones columns has the 5 in and the other has either 1 or 7

7 A jacket costs £52
Eight jackets and three skirts cost £653
How much does a skirt cost?

1 mark for three skirts costing £237

£ 79

8 Some cards are shared between 7 boxes.
There are 63 cards in each box and 4 left over.
How many cards were shared between the boxes?

445 cards

9 Work out 25 × 87 × 4
Explain or show your method.

E.g. I did 25 × 4 first which is 100, then multiplied 87 by 100

8,700

Sudoku 6 x 6 Puzzles **Answers**

5	2	**4**	3	6	**1**
3	**6**	**1**	5	**4**	2
1	5	**6**	**2**	**3**	4
2	**4**	3	1	5	6
4	3	**2**	6	1	**5**
6	1	**5**	4	2	**3**

2	5	**1**	**6**	4	3
6	**3**	**4**	**2**	1	5
5	**4**	6	**1**	3	**2**
1	**2**	3	**5**	6	**4**
4	6	5	3	**2**	1
3	**1**	**2**	4	5	**6**

6	3	2	4	**5**	**1**
4	**5**	1	6	3	**2**
2	6	3	1	**4**	**5**
1	**4**	5	**2**	6	**3**
5	**1**	**6**	3	**2**	4
3	**2**	**4**	**5**	**1**	6

5	2	4	**1**	3	**6**
1	**6**	**3**	5	**4**	2
3	4	**2**	6	1	5
6	5	1	**3**	2	**4**
4	**1**	**6**	2	5	3
2	**3**	**5**	4	6	1

1	3	2	**5**	**6**	4
4	5	6	**1**	3	2
6	**2**	**3**	**4**	1	**5**
5	4	1	6	**2**	**3**
2	**6**	5	3	**4**	1
3	1	4	2	**5**	**6**

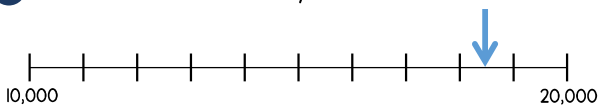
1	6	**2**	5	**4**	**3**
5	4	3	**1**	2	**6**
3	**1**	**4**	**6**	5	**2**
6	**2**	**5**	**3**	**1**	4
4	**5**	**6**	**2**	**3**	1
2	3	**1**	4	**6**	5

Converting Time Worksheet - **Answers**

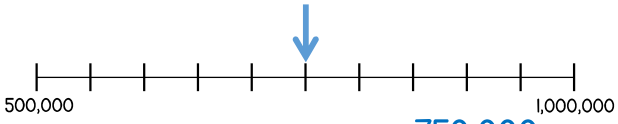
Time in Words	24 Hour Clock	12 Hour Clock	Analogue
seven o'clock in the evening	19:00	7:00p.m.	
eleven o'clock in the morning	**11:00**	11:00a.m.	
quarter past two in the afternoon	14:15	**2:15 p.m.**	
twenty past eight at night	**20:20**	8:20p.m	
midday	**12:00**	**12:00 p.m.**	
twenty to seven in the evening	**18:40**	6:40p.m.	
midnight	**00:00**	**00:00 a.m.**	
seven minutes to eight at night	**19:53**	**7:53 p.m.**	

Year 6
Place Value Assessment

1 What numbers are shown by the arrows?



18,500



750,000

2 Here are some digit cards.

2	5	8	3

Fred makes the largest 3 digit **even** number he can make.
He rounds his number to the nearest 10
What is his answer?

850

3 Complete the missing numbers.

127,084 = 100,000 + 20,000 + 7,000 + 80 + 4

7,503 = 7000 + 500 + 3

4 The length of four rivers is shown in the table.

River	Length in km
Mississippi	6,275
Saint Lawrence	3,058
Nile	6,853
Rio Grande	3,057

Put the rivers in order of their length starting with the shortest.

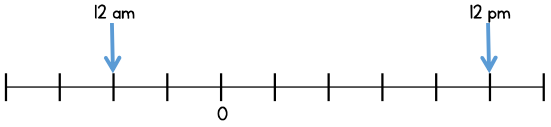
Rio Grande, Saint Lawrence, Mississippi, Nile

All 4 in correct order for 1 mark.

Round the length of the Mississippi river to the nearest 100 km.

6,300 km

5 The number line shows the temperature at 12 am and 12 pm on Monday in a town.
The difference between the temperatures is 14°C.



What is the temperature at 12pm?

10 °C

6 Here are 3 digit cards.

4	8	9

Use each card once to make the statement correct.

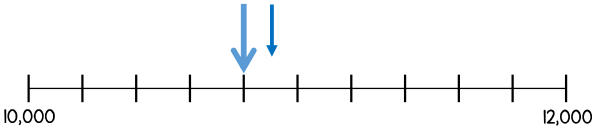
9	0	3	>	8	4	8

4 and 8 can be either way round.

Arrange all 6 cards to make a number between 395,000 and 425,000

Answer needs to begin 398 or 40.

7 Nick marks a number on the number line.



Draw an arrow to show 100 more than Nick's number.

8 Here is part of a number sequence.
The sequence increases by 50 each time.

6,250	6,300	A	B	C	D	E	F	G

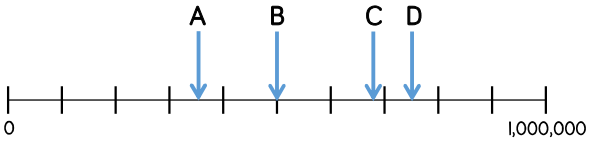
Which box will have the first number greater than 6,500?

E

9 What is the **smallest** digit that can be used to make this statement correct?

34,3 6 8 > 34,359

10 Some numbers are marked on a number line.



Which numbers round to 1 million to the nearest million?

B, C, D

Which number rounds to 700,000 to the nearest thousand?

C

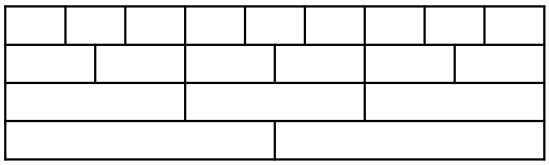
11 What is 35 ones + 35 tens?

385

Year 6

Fractions (+ and −) A

1



Use the fraction bars to simplify the fractions.

$\frac{6}{9} = \frac{2}{3}$ $\quad 5\frac{3}{6} = 5\frac{1}{2}$

2 Max says $\frac{30}{50}$ in its simplest form is $\frac{15}{25}$

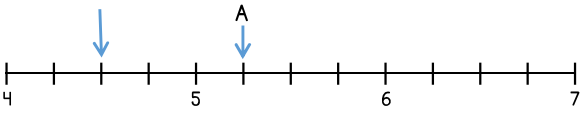
Is Max correct?

Yes (No)

Explain your answer.

5 is a factor of 15 and 25 so it will simplify to $\frac{3}{5}$

3



What number is the arrow pointing to?

5.25 or $5\frac{1}{4}$

Draw an arrow to the number that is $\frac{3}{4}$ less than A.

What number is $1\frac{1}{2}$ greater than A?

6.75 or $6\frac{3}{4}$

4 Tick the statements that are true.

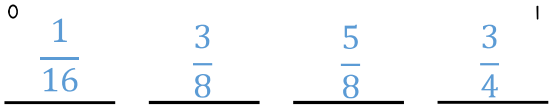
$\frac{3}{5}$ is greater than $\frac{3}{7}$ ✓ $\quad 1\frac{3}{8}$ is less than $\frac{7}{8}$ ☐

$\frac{2}{8}$ is equal to $\frac{5}{20}$ ✓ $\quad 2\frac{1}{4}$ is greater than $\frac{11}{4}$ ☐

5 Write the fractions in order from smallest to largest.

You may use the number line to help you.

$\frac{3}{4}$ $\frac{5}{8}$ $\frac{3}{8}$ $\frac{1}{16}$



$\frac{1}{16}$ $\quad \frac{3}{8}$ $\quad \frac{5}{8}$ $\quad \frac{3}{4}$

Award 1 mark for 2 correctly placed fractions.

6 Calculate

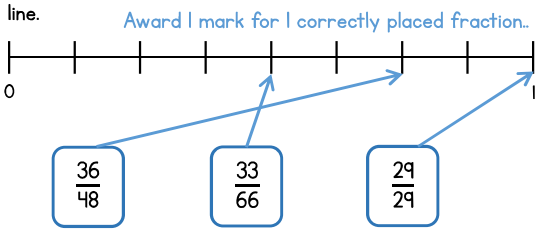
$\frac{2}{3} + \frac{1}{9} = \frac{7}{9}$

$\frac{5}{6} - \frac{3}{4} = \frac{1}{12}$

$2\frac{3}{5} + 1\frac{1}{2} = 4\frac{1}{10}$

7 Draw arrows from each fraction to its position on the number line.

Award 1 mark for 1 correctly placed fraction..



8 Jenny reads $\frac{1}{4}$ of her book on Monday.

She reads $\frac{1}{3}$ of the book on Tuesday.

On Wednesday she reads the rest of the book.

What fraction of the book did she read on Wednesday?

Award 1 mark for 1 correct step of calculation.

- Finding equivalent fractions
- Adding fractions together

$\frac{5}{12}$

9 Three friends share a chocolate bar.

Laura gets $\frac{3}{9}$, Phil gets $\frac{4}{12}$ and Matt gets $\frac{7}{21}$

Did they share the chocolate bar equally?

Explain your answer.

Yes.

Each fraction is equivalent to one third.

10 A circle has an area of $18\frac{1}{6}$ cm^2.

Max cuts a triangle from the circle.

The triangle has an area of $5\frac{2}{3}$ cm^2.

What is the area of the circle that is left?

Award 2 marks for the correct answer.

Award 1 mark for 1 step of correct calculation.

$12\frac{1}{2}$ cm^2

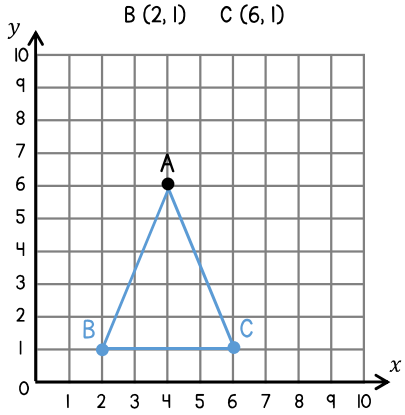
Year 6
Position and Direction

1 Write down the coordinates of point A.

(4 , 6)

Plot the points B and C on the grid.

B (2, 1) C (6, 1)

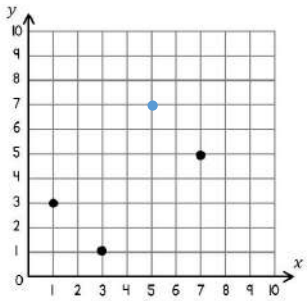


Join up the 3 points to make a triangle.

What type of triangle have you drawn?

Isosceles

2 Teddy is drawing a rectangle on a grid.



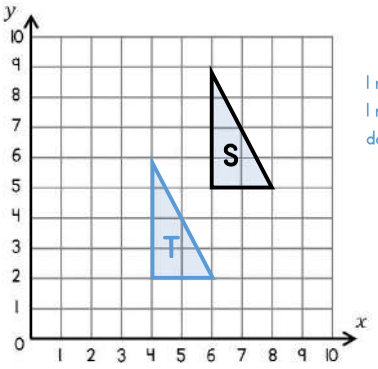
Plot the final vertex of the rectangle.

What are the coordinates of the final vertex?

(5 , 7)

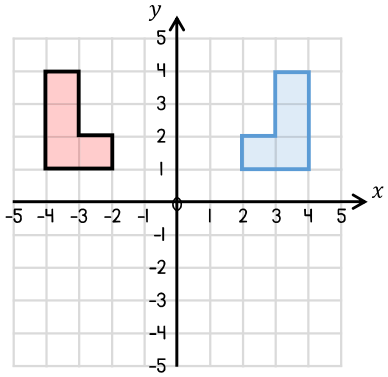
3 Translate triangle S, 2 left and 3 down.

Label your triangle T.



1 mark for 2 left, 1 mark for 3 down.

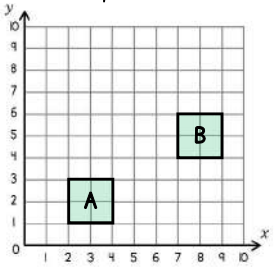
4 Reflect the shape in the y axis.



1 mark for correctly reflected shape in wrong position.

5 Eva translates shape A, 3 right and 1 up.

She labels her new shape B.



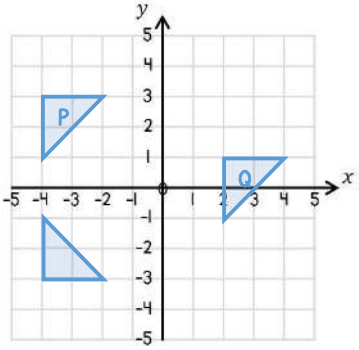
Explain why Eva is wrong.

She has counted 3 across 1 up but then drawn the rest of the shape incorrectly.

What are the coordinates of the correctly translated shape?

(5 , 2) (7 , 2) (5 , 4) (7 , 4)

6 On the grid, draw the shape with vertices at (-2, -3), (-4, -3) and (-4, -1)



Reflect the shape in the x axis, label your shape P.

1 mark for correctly reflected shape in wrong position.

Translate shape P, 6 right and 2 down.

Label your new shape Q. Ft 1 mark for correct translation of their P

7 A square is drawn on a grid.

Two of its vertices are at (3,3) and (7,7)

What is the perimeter of the square?

1 mark for correct side length of 4

16 units