

Year 5
Home Learning 12

Here are some topics which you can work from at home. All work can be recorded in a way you choose.
The theme for this week is **Local History**.

Each day we put a 'Word of the Day' on the grid below. See if you can:

- *Find the definition*
- *Use the word in a sentence*
- *List any synonyms*
- *List any antonyms*
- *Use the word in a different context*
- *Use an image to represent the word - be creative!*

Please keep looking on your online resources whenever you get the opportunity they are:

- MyMaths
- TT Rockstars
- Spelling Shed



Also, remember to read daily, this will help with your English skills.

Website of the Week:


<https://uk.ixl.com/math/year-5>

A website full of mathematical games!

Please check below your home learning grids for attached activities.

<p style="text-align: center;">Monday</p> <p style="text-align: center;"><i>Word of the Day – sufficient</i></p>	<p style="text-align: center;">English Reading and Research</p> <p>Research some information about your local area/ Hereford.</p> <p>Resources: The internet Call a relative/friend/neighbour who has lived in the area a long time. Your parents</p> <p>Questions to think about... Did I find out any interesting facts about my local area? Geographically where is my local area on a map of the UK? Do I live in a rural area?</p> <p>The local Herefordshire website has lots of information. https://www.herefordshire.gov.uk/info/2/00172/history_lives_here/648/hereford_museums_and_art_gallery/4#Inside</p>	<p style="text-align: center;">Maths</p> <p>Please see below for activities. Complete one each day.</p> <p>You also have MyMaths and TT Rockstars work.</p> <p>This website is also great and gives you daily activities revising all of the things you have learnt in Year 5. You could use them as daily starters. https://myminimaths.co.uk/year-5-mini-maths/</p> <p>Also, don't forget the fantastic resources on the new BBC Bite size website. Just click on Year 5 and it is full of exciting activities not just for maths but for all subjects. https://www.bbc.co.uk/bitesize/tags/zhgppg8/year-5-and-p6-lessons/1</p> 	<p style="text-align: center;">Physical Daily Walk</p> <p>Take a walk around your local area.</p> <p>Attached below is a local area observation sheet. Can you complete this along the way?</p> <p>Do this daily for the week and see if you spot something new every time?</p>	<p style="text-align: center;">Science The Coin Experiment Part One</p> <p>Why do objects from the past not look the same as they did brand new? That's because over time they get used and can be damaged. Have you noticed that some coins you have are shiny and some discoloured?</p> <p>Experiment- see the experiment attached below.</p> <p>Can you answer these questions? What can clean pennies the best? Why do you think coins lose their shine? Which of the liquids do you predict will clean the coins best? Was your prediction correct?</p> <p>See attached an explanation about what happened in the experiment.</p>	<p style="text-align: center;">Creative Artist inspired</p> <p>Explore local photographer Derek Evans local history virtual exhibition!</p> <p>https://www.herefordshirelifethroughalens.org.uk/virtual-exhibition-tours/</p> <p>https://herefordshirehistory.org.uk/archive/herefordshire-life-through-a-lens/derekevansprints?ipage=7</p> <p>Inspired by Derek Evans work could you draw a detailed picture of something from your local area? It could be something you spotted on your walk that interested you or it could be a view from your window at home?</p> 
	<p style="text-align: center;">Tuesday</p> <p style="text-align: center;"><i>Word of the day – variety</i></p>	<p style="text-align: center;">SPaG Day SPaG</p> <p>Complete the SPaG activity attached.</p> <p>Please complete the activities on Spelling Shed.</p> <p style="text-align: center;">Reading Activity</p> <p>Complete the attached comprehension.</p>	<p style="text-align: center;">Repeat your daily walk.</p> <p>Can you take another route that you didn't yesterday? Can you spot anything new of interest?</p>	<p>How does what we drink</p> <p style="text-align: center;">The Coin Experiment Part Two</p> <p>Experiment - Look at the second part instructions below.</p> <p>Question Does anything different happen to the coin?</p>	<p style="text-align: center;">Time capsule</p> <p>Become a part of your local history. Create your own time capsule! You could write a letter explaining all about what is going on around you now. Could you find some objects to put in the capsule box?</p> <p>Who knows someone may dig up your capsule years from now!! How exciting!!!</p>


<p style="text-align: center;">Wednesday</p>	<p style="text-align: center;">Writing Day</p> <p style="text-align: center;">Time Travellers Tale</p> <p>You are going to create a warning story entitled the Time Travellers Tale. It should be based around your local area/ Hereford and can include factual events that happened in the past.</p> <p>Features of a warning story: Main Character warned not to do something. Similes, Personification, Short snappy sentences, sudden sounds. Main Characters punished for disobeying warning.</p>		<p style="text-align: center;">Daily jog</p> <p>Now you've walked around your area why not try and jog it? How long did it take you to walk a certain route? How much faster did you do the same route jogging?</p>	<p style="text-align: center;">Soil</p> <p>The area we live in is historically very rural. Herefordshire is famous for its farming and has good soil for growing things like apples! Did you know that the land is built up of layer of organic material not just soil?</p> <p>Experiment – see attached to see what organic materials the land might be made up of. There is also an extension task.</p> <p>Questions- What materials do you think the land is built up of? What do you think would be required to grow good crops?</p> <div> </div>	<p style="text-align: center;">Fact File</p> <p>Create a fact file on the famous Hereford Composer Edward Elgar. (His statue is outside the Cathedral!)</p> <div> </div>
	<p style="text-align: center;">Thursday</p>	<p style="text-align: center;">Writing Day</p> <p>Create a fact file about the city of Herefordshire and the surrounding area using information you gathered on Monday.</p> <p>Remember this isn't a story you need to use facts.</p> <p>Include images to grab your reader's attention!</p>	<p style="text-align: center;">Cycling</p> <p>Edward Elgar was a keen cyclist; he is even presented with his bike on the statue which is outside Hereford Cathedral.</p> <p>If you can a bike go cycling around your local area, you might discover things you hadn't seen before.</p> <p>If you don't have a bike why not jog around your area this time instead of walking?</p>	<p style="text-align: center;">Invisible ink</p> <p>You can write secret messages with invisible ink... here is how! (You need adult supervision)</p> <p>Equipment 1 cup of lemon juice Q-tip cotton buds Paper Iron</p> <p>Experiment 1.Fill a cup with ¼ of lemon juice 2.Add half a teaspoon of water and stir 3.Dip your Q-tip bud into the solution and write your message on the paper</p>	<p style="text-align: center;">Inspired by music</p> <p>Listen to one of Edward Elgar's pieces of music. Does it create an image in your mind? Can you draw a picture based on what you hear! Think about how colours can depict moods. We've discussed this before in Art lessons.</p> <p>https://www.youtube.com/watch?v=kAov-YqHSlc</p>

					<p>4. Leave the paper to dry completely 5. With adult help use an iron and run it over the paper several times.</p>	
Friday	Word of the Day – develop	<p>Spelling Day Log onto Spelling Shed and practise this week’s spellings.</p> <p>Can you write a paragraph which includes them all?</p> <p>Can you paragraph be about Local History/ Hereford?</p> <p>This website has great spelling games https://uk.ixl.com/ela/year-5</p>		<p>Walk, jog, cycle Can you explore another area of Herefordshire that you haven’t been to before or haven’t been to in a long time? Do you notice anything different about this area? Is it rural? The city?</p>	<p>Cloud in a jar The weather in the UK can be wet and cloudy. Create your own cloud in a jar!</p> <p>Equipment Glass jar with a lid 1 cup hot boiling water Hairspray or deodorant 3-5 cubes of ice</p> <p>Experiment 1. (with adult supervision) pour the boiling water into the jar 2. Quickly spray hairspray into the jar and then shut the lid 3. Place the ice cubes on top of the jar lid 4. Watch the top of the jar carefully and you will see a cloud begin to form.</p>	<p>Finger Crochet Throughout history people have used local resources to create things they need. Follow this tutorial on how to finger crochet! All you need is some wool and scissors.</p> <p>https://www.youtube.com/watch?v=F4rmlLtGKvI</p> 

SPaG activities

a

Can you write a sentence that contains two modal verbs about this Olympic swimmer, who is hoping to break the 200m breaststroke world record? Underline the modal verbs.




c

Poor Mr Whoops can't work out whether to add the word endings 'able' or 'ible'. Can you help him with these words?

consider _____

flex _____

convert _____



Now, use one of the words that you have made in a past progressive sentence.

e

Rewrite the sentence below in the simple present tense. Underline the parenthesis in your new sentence.

Roland, the plumber, fitted the new sink.

b

Circle all of the nouns in the sentence below.


When making the mask, Safina carefully cut out the shape of eyes and a mouth.

Which word is an adverb?

d

Rewrite this sentence so that it includes a time adverbial at the beginning of the sentence.

The boys played basketball.



f

Can you think of an adverb of possibility and an adjective beginning with...

	adverb of possibility	adjective	past tense verb
the letter s?			
the letter d?			

Challenge: Can you use all three words from one row in a single sentence?

Comprehension

The Legend of the Elfwind

Ave was walking in the Fens on her own. It was a flat, harsh landscape stretching as far as the eye could see, with miles of brown fields and grey skies that seemed never-ending. Ave had been here plenty of times before, delivering messages or tending the land; sometimes she could walk for hours without spotting another human being. It could be bleak but, over time, Ave had developed a form of love for the place. It didn't ask anything from her. It treated her as an equal. There was a certain beauty to the stillness of the Fens that she'd never known growing up in the house: a peacefulness that even now seemed so strange.

Today was different.



For a start, she was out after six. She was never out after six; it was forbidden. The wind was biting and the mists had begun to roll in from the sea. She was still three miles from her adopted home, Auberon's Keep, and it was getting dark. Her master would not be happy.

She wrapped her scarf tightly around her head, bending into the wind as the rains lashed at her hands and body. She prayed that her master would understand; hoping beyond hope that he would be merciful this time.

But at the back of her mind, she hoped the stories of the creatures were true.

Ave decided to take a short cut through the fields and along Elven Dyke. All the fields had dykes running alongside them. They were man-made waterways built to drain the land. Most were made two or three hundred years ago when the Fen people had reclaimed the land, but not Elven Dyke. Some said it had been there since Roman times, some said even longer. Its long, straight course had separated her master's land from the other farmers' fields for centuries. Her master always said its steep banks and deep waters were the perfect protection from thieving villagers. 'To walk its banks is to invite trouble', he would sneer by the fireside.

But Ave had no choice. There wasn't enough time to take the long road; not with the mist thickening and daylight almost gone. Deep down, something told her to go this way anyway. With the wind howling and the rain stinging her eyes, Ave jumped across and made her way along Elvin Dyke, her sodden boots squelching through long grass and overgrown reeds.

A mile or so later, Ave came to a thin, dead-looking tree. She could just about make out its twisted, leafless branches silhouetted against the charcoal-grey sky beyond. Wet and cold, she peered back the way she came. She could hardly see a thing. As if a thick blanket had been thrown across the land, the fields were now shrouded in blurry darkness.

That's when she first heard the noise. Like a laughing, or a howling, the sound was high-pitched and distant. Ave stopped. Her heart was racing. She had heard of the Elfwind. She had listened to the children and to her master's stories about how the Fenland air could play tricks on lost travellers in the night.

That's when she heard a voice. A soft voice, singing on the wind.

"Avery Tanner from Auberon's Keep," the voice sang. "You've come to find us, your memories weep."

Ave stood frozen as the wind and rain continued to whip at her face and body. "Who's there?" she shouted.

"Make up for the past, yourself you must give; let us protect you, you cannot forgive," the voice whispered on the wind.

"Show yourself!" Ave yelled.



The rain eased and the mist cleared, revealing the eerie looking tree and a bright yellow moon. "We are the Elfwind, we know you by name; we know of your sorrow, we know who's to blame," the voice replied. "The one you call master, he took you away; he took you from Mother, and now he must pay."

Ave stepped closer to the tree. The legend of the Elfwind was true! In the legends, the elves were carried unseen by the wind. They would seek out wrong-doers and carry out their own elf-like justice. All you had to do was ask for their help. But, Ave had been warned, it always came at a price. "What do you want from me in return?" Ave asked.

"Your heart," was all the Elfwind sang back.

Ave closed her eyes and tried to picture her mother. It was so long since she'd last seen her, the image had become faded and incomplete. Auberón had done that. When he took her, he robbed Ave of her childhood memories and her mother's love. His crime was unforgivable. He had to pay. "Agreed," Ave whispered, tears falling from her cheeks.

When she returned to Auberón's Keep, the fire was roaring in the hearth but there was no sign of her master, just his chair rocking gently on the wooden floorboards. She never saw him again. Never more was she sent to deliver messages or tend the land; never again would he treat her cruelly. She had a new master now.

Years after her death, the village children would talk of a mysterious woman who walked along Elven Dyke in the dead of night, singing songs of love. But they never saw her face; it was only ever her voice they heard. Like the legend of the Elfwind, drifting on the breeze...

Questions

Q1: Find and copy two facts about the Fens from the first paragraph.

- _____
- _____



Q2: '*...tending the land;*'

How else could the author have written this phrase?

Q3: Why do you think that it was forbidden to be out after six o'clock?





Q4: What was the name of the dyke that Ave walked along?

Q5: Find and copy three ways in which the author gives the impression that the setting is unpleasant.

- _____
- _____
- _____



Q6: *'But Ave had no choice.'*

Why do you think that Ave felt this way?

Q7: How do you think Ave felt when she first heard the noise? Use evidence from the text to support your answer.



Q8: Why do you think that the author compares the mist to a thick blanket being thrown across the land?



Q9: How does Ave's life compare to her master's?



Q10: Why did Ave stand 'frozen'?

Q11: What do you think happened to Auberon?



Q12: Retell the main points of this text in three sentences.



Coin Experiment- Part One

Equipment

- ¼ cup of coke
- ¼ cup of apple juice
- ¼ cup of vinegar
- ¼ cup of salt and vinegar
- ¼ cup of water
- ¼ Ketchup
- Tweezers
- Kitchen paper
- Teaspoon for mixing
- 5 old copper coins (1ps or 2ps)
- Pen
- Paper for labelling

Instructions

1. First, either write the name of the liquid you are using on the cup or write it on a label on a piece of paper and keep to the side of it.
2. Next, pour one liquid into each cup – cup1 water, cup2 coke etc...
3. Then put one old coin in each cup
4. Leave the coin in there for 10 minutes
5. After 10 minutes, remove the coin with the teasers.
6. Finally, wipe the coins dry with the kitchen paper.

What do you notice?

Coin Experiment- Part Two

Equipment

- ¼ cup of salt and vinegar
- ¼ Ketchup
- Tweezers
- Kitchen paper
- Teaspoon for mixing
- 2 old copper coins (1ps or 2ps)
- Pen
- Paper for labelling

Instructions

1. First, fill two cups, one with the ketchup the other with salt and vinegar.
2. Leave the coins for 10 minutes.
3. After 10 minutes, remove the coins with the tweezers but this time **do not wipe dry**. Leave them to air dry.
4. Finally, after about 30 minutes to an hour look at the coins again.
What has happened?

Coin Experiments Explained

Experiment One –

Copper coins start off shiny and new, in time they get dark and dull.

This is because copper reacts with oxygen and over time the copper reacts with the oxygen to form copper oxide.

The acid in some of the liquids you tried like the Vinegar and salt and the ketchup dissolves this copper oxide.

Experiment Two –

Did the coin turn bluish-green? This is because when the vinegar cleans the coin, it exposed the copper underneath. When the air dried the coin, it took with it some chlorine which is often found in salt. This green colour is called Malachite.

Fact- This is actually why the statue of Liberty is greenish-blue!!

Soil Experiment

Equipment

- A Jar
- Cup of water
- Stick or something to stir

Instructions

1. Take a clean, straight-sided jam jar and fill it about a third of the way up with the soil you are experimenting with. Also have ready another jar of clean water and a stirring stick.
2. Now add the clear water until the jar of soil is almost full.
3. Now use a stirring stick to stir up the mixture really thoroughly.
4. Now leave the jar for one hour so the contents settle out and the water can start to clear.
5. Now the water has settled out, you should be able to see different layers appearing.

Soil Experiment Explained

Now the water has settled out, you should be able to see different layers appearing. Sand particles are the biggest and weigh more than silt - so the bottom layer will be the sand part of the soil. Any pebbles will also be at the bottom. Next up is the silt layer. Silt particles are smaller than sand and weigh less so they appear over the sand. If you were able to separate out any clay particles they are the smallest and will be on top. If your soil is really thick clay then you may just be left with clay lumps at the bottom, Next up you will have the water. This is likely to be discoloured. The colouring is likely to be rotted plant (organic) material that is soluble (it's dissolved). Finally, at the top will be floating organic material which isn't fully rotted.

Extension Task

What you can do is now use a measuring tape to measure the height of the total soil and water (say 10cm), and then the height of each layer (say the silt is 1cm). Then you can work out the percentage of each part of the soil. This is called the soil texture. For silt for example the sum is 10cm divided by 1cm all multiplied by 100 to get the percentage (so $10/1 \times 100 = 10\%$). Finish off by drawing a pie chart of the different proportions, and as noted above compare the results with other soils.

Maths Activities

Monday

Section 1

Order these numbers from smallest to largest:
576 094, 567 094, 576 904, 567 904

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Section 5

Draw lines to show which fractions, decimals and percentages match.

$\frac{7}{10}$	40%	0.01
$\frac{2}{5}$	1%	0.7
$\frac{1}{100}$	70%	0.4

Section 6

Complete these calculations:

$6396 \div 3 = \boxed{}$

$1333 \times 2 = \boxed{}$

Section 2

Round these numbers to the nearest 100 000:

367 562	→	<input style="width: 80px; height: 20px;" type="text"/>
453 378	→	<input style="width: 80px; height: 20px;" type="text"/>

Section 3

Use these signs < or > to show which number is greater than or less than.

48 701	<input style="width: 20px; height: 20px;" type="text"/>	48 710
81 010	<input style="width: 20px; height: 20px;" type="text"/>	80 999

Section 4

Convert these measurements in litres to millilitres:

12.43l	=	<input style="width: 80px; height: 20px;" type="text"/>
6.8l	=	<input style="width: 80px; height: 20px;" type="text"/>



Section 7

A shop assistant sold £845 worth of perfume. This was £258 more than yesterday. How much did she sell yesterday?

Section 8

Write these Roman numerals as digits:

CCLXVI	<input style="width: 80px; height: 20px;" type="text"/>
CCCLXXIV	<input style="width: 80px; height: 20px;" type="text"/>



Tuesday

Section 1

In the number 576 213, which digit represents the number of ten thousands?

In the number 923 648, what place value does the digit '3' represent?

Section 2

Calculate the following in your head:

$56 + 67 = \boxed{}$

$48 + 36 = \boxed{}$

$72 - 26 = \boxed{}$

$91 - 67 = \boxed{}$

Section 3

Calculate:

$4.3 \times 100 = \boxed{}$

$5.61 \times 100 = \boxed{}$

$912 \div 100 = \boxed{}$

$6002 \div 100 = \boxed{}$

Section 4

Use the < or > signs to compare these fractions:

$\frac{2}{3}$	<input style="width: 20px; height: 20px;" type="text"/>	$\frac{4}{6}$
$\frac{1}{4}$	<input style="width: 20px; height: 20px;" type="text"/>	$\frac{3}{16}$
$\frac{17}{20}$	<input style="width: 20px; height: 20px;" type="text"/>	$\frac{4}{5}$

Section 5

In order from smallest to largest, write the following numbers in digits:

four point seven two

four point seven

forty point six nine

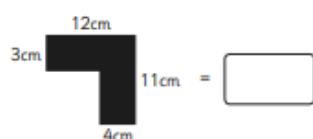
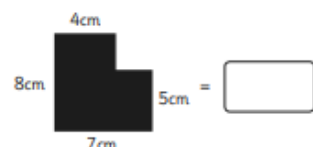
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smallest

largest

Section 6

Calculate the perimeter of these composite rectilinear shapes.



Section 7

Explain why this shape is regular.



Explain why this shape is irregular.



Section 8

Here is a table showing the number of boys and girls in each year group.

	Y3	Y4	Y5	Y6	Total
Boys			45		179
Girls	47	37		39	
Total		89	89	87	

Complete the table.

Wednesday

Section 1

Complete these linear sequences:

4562	5562		
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41 786	40 786		
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77 309	87 309		
--------	--------	--	--

622 792	612 792		
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Section 2

Put the numbers from 1 to 20 on this Carroll Diagram:

	Prime Number	Not a Prime Number
Even number		
Odd number		

Section 3

Calculate:

$40 \times 6 = \boxed{}$

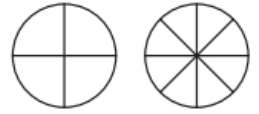
$7 \times 50 = \boxed{}$

$80 \times 30 = \boxed{}$

$1200 \times 11 = \boxed{}$

Section 4

Shade the following circles so the same fraction is shaded in both and write the fraction that they represent:



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Section 5

Round the following numbers to the nearest whole number and nearest tenth:

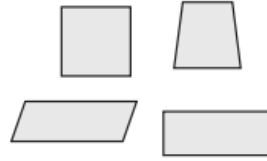
Number	Nearest whole	Nearest tenth
16.45		
1.06		
2.98		
67.59		

Section 6

A bus journey starts at 16:13 and finishes at 18:05. How long is the journey?

Section 7

For each of the following shapes, explain why they are or are not a rectangle.



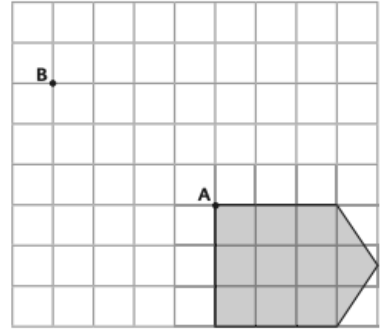
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.....

.....

Section 8

Translate this shape from point A to point B:



Thursday

Section 1

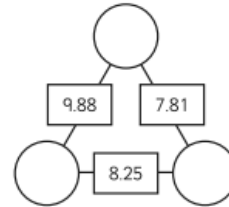
The temperature is 4°C at 9pm. By 6am the following morning, the temperature has fallen by 9°C. What is the temperature now?

Section 2

The new Wembley Stadium has 90 000 seats. When the stadium is 75% full, what is the attendance to the nearest 1000.

Section 5

Place three of the following numbers in the circles so the number in the square is the total of the numbers in the adjacent circles: 6.23, 4.72, 3.09, 7.26, 5.16, 2.69



Section 6

1 inch = 2.54 cm

1 foot = 12 inches

How many centimetres in 1 foot?

Section 3

Complete these calculations:

$$\begin{array}{r} & 4 & \square & 2 \\ + & \square & 6 & 9 \\ \hline 8 & 5 & \square & \end{array}$$

$$\begin{array}{r} & 7 & \square & 5 \\ - & 3 & 7 & \square \\ \hline \square & \square & 5 & 8 \end{array}$$

Section 4

Order the following fractions from smallest to largest:

$\frac{3}{4} \quad \frac{11}{12} \quad \frac{7}{8} \quad \frac{13}{16}$

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Section 7

Write the name of these shapes:



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.....

Section 8

Children measure the temperature in the playground on each hour.

Time	Temperature
9am	-1
10am	2
11am	5
12pm	7
1pm	8

When is the highest temperature?

How much does the temperature rise between 9am and 12pm?

Friday

Section 1

Write these Roman Numerals as numbers:

CCIX →

DCLXXVII →

Section 2

Write all the square numbers from 1×1 to 12×12 .

Section 3

Use a formal written method to work out these calculations:

216×14

$954 \div 6$

Section 4

Calculate:

$\frac{2}{3} + \frac{1}{6} =$

$\frac{7}{10} - \frac{3}{5} =$

Section 6

A plastic box weighs 25g and six cricket balls weigh 300g. How much do three plastic boxes, each with six cricket balls, weigh in kilograms?

Section 8

Here is a bus timetable:

Jordanthorpe	07:19	07:31	07:43
Nether Edge	07:48	08:00	08:12
Sheffield	08:06	08:18	08:30
Pitsmoor	08:20	08:32	08:44
Shiregreen	08:40	08:52	09:04

Do all the buses take the same time for each journey from Jordanthorpe to Shiregreen?

Jan needs to arrive in Sheffield by quarter past eight. Which bus should he catch from Nether Edge?

Section 5

Draw lines to match the following:

$\frac{53}{100}$ 13%

$\frac{13}{100}$ 53%

$\frac{79}{100}$ 79%

Section 7

Write acute, obtuse or reflex underneath each angle:



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.....

.....