Week 10

Week 10 Day 1: Mental Maths ... remember to use jottings

Α		ANSWER	С			ANS	WER
1	Write as a decimal $10 + \frac{8}{100} + \frac{3}{1000}$.		1	The approximate po forty thousand more	pulation of a cit than $\frac{1}{2}$ million.	y is	
2	3.125 litres = ml	ml		What is the approxi	in her money bo	ו? אר	
3	³ / ₁₀ of £1·80	р	-	She has 17 pennies,	, 9 TWOS and so	me FIVE	ES.
4	1% of twenty thousand		3		480 men, won	nen and	FIVES
5	38 mm + 26 mm + 40 mm = cm	cm		or compare	children went From the diagr	to a cor am	icert.
6	10 ² - 4 ³			WOMEN	find how many	(a)	
7	0.02 × 50	1		MEN	(b) women	(b)	1.6
8	$\frac{1}{2}$ kg = 135 g + g	g			(c) children	(c)	1 Lab
9	$\frac{3}{4}h - \frac{2}{3}h = min$	min		The newinester of a	were at the co	ncert.	
10	47p × 8 = £	£	4	is 21.6 cm. Find in r	nm		
11	0.25 + 0.365			(a) the length of one	e side ide of a regular	<u>(a)</u>	mm
12	£35 ÷ 4	£		hexagon of the s	same perimeter.	(b)	mm
			5	The price of a ticket	was increased f	rom	
В		ANSWER		(a) as a fraction	, the mereuse	(a)	
1	How many hundreds are there in thirty thousand seven hundred?			(b) as a percentage price?	of the original	<u>(b)</u>	%
2	100 pencils cost £5.92.	f	6	How many packets 300 g can be made How many g are lef	each containing from 2.5 kg? t?	rem.	. g
3	By how many degrees does the		7	1 litre or 1000 cm ³	of water has a m	nass of 1	l kg.
	temperature rise from -10° C to 4° C?	00		volume as 1 cm ³	?	(a)	ml
	-	7		(b) What is the mass	s of 1 cm ³ of	(b)	a
	16 24 36 54 72 Which of these numbers are multiples of both 6 and 82 54 72 54 72		8	A room is $1\frac{1}{4}$ times a width is 6 m find the	as long as it is wi e area of the roo	de. If th	e m²
	Find the everage of $2^{\frac{1}{2}}$ $1^{\frac{3}{2}}$ and $2^{\frac{1}{2}}$		9		the triangle		
	By how many g is 750 g less than $\sum_{n=1}^{\infty}$			110°	∠ ABC	<u></u>	0
•	1 kg 150 g?	g		1250	∠ BAC		0
7	Write 35 eighths as (a) an improper fraction		-	В	∠ ACB.	<u> </u>	0
	(b) a mixed number. (a)	(b)	10	coarse sand and 2 p	arts peat.		
8	20% of a sum of money is 49p. Find 100% of the money.	£		(a) What percentage is sand?	e of the mixture	<u>(a)</u>	%
9	How many days are there in the seventh month of the year?			(b) Find the mass of to make 2 kg of	peat required the lawn sand.	<u>(b)</u>	g
10	Write as a fraction in its lowest terms (a) 15 out of 40 (b) 28 out of 32. (a)	<u>(b)</u>	11	Motor Museum ADMISSION £3·40	What is the total price for mother father and two	l admiss ,	ion
11	Approximate 17.850 litres to the nearest $\frac{1}{2}$ litre	0		children – half price		<u> </u>	1
12	Find in degrees	i O	12	E 12 m	1 ne lawn measu 12 m by 7 m. Th around it is 1.5 r	res e path n wide.	
	70° 50° × ∠ y.	o			Find the area of whole garden.	the	

Section 1 Test 11

Α		ANSWER	С	ANSWER
1	1 m 50 cm ÷ 10 = cm	cm	1	In a class library there are 138 fiction
2	$\frac{1}{2}$ kg + 375 g = g	g		How many books are there altogether?
3	7300 ÷ 100			
4	⁷ / ₈ of £16	£	2	What fraction of 1 hour is (a) 20 minutes (b) (a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c
5	£3.00 – £1.13	£		(b) 40 minutes? (b) h
6	- 450 km – 360 km	km		
7	£2·47 + £1·63	£	3	guantities weigh?
8	$1\frac{1}{2}m = mm$	mm		
9	(7 × 8) – (5 × 6)		4	PACK OF 4 for 60p BACK OF
10	25 mm × 8 = cm	cm		
11	10.24 a.m. to 12.10 p.m.	h min	5	How many hours will it take a car travelling at 70 km/h to travel 280 km? h
12	$(\frac{1}{7} \text{ of } 42) - (\frac{1}{9} \text{ of } 18)$		6	By how many m is the sum of 870 m
В		ANSWER		and 650 m more than $1\frac{1}{2}$ km? m
1	Write the name of the coin which has the same value as ± 0.02 .		7	Which number when multiplied by
2	Write the next two numbers in this series. 49, 42, 35,	,	8	mm 10 20 30 40 50 60 70 mm 20 20 30 40 50 60 70 mm 20 20 30 40 50 60 70 mm 20 40 50 60 70 Mm 20 40 50 60 70 Mm 20 40 50 70 Mm 20 40 50 70 Mm 20 40 50 70 Mm 20 40 70 Mm 20 7
3	Find the total of £2·36 and £0·99.	£		Write the length of a line 100 times longer than the line YZ
4	$\frac{9}{10}$ of a sum of money is £45. Find the whole amount.	£		(a) in cm (a) cm
5	Write in cm the length remaining when 10 cm is reduced by 55 mm.	cm		(b) in m. (b) m
6	How many g are there in $\frac{1}{10}$ kg?	g	9	David who has 45p.
7	What is the difference between 42 and 420?			
8	Six cost £2·16. What is the cost of one?	р	10	have the children run
9	Write 250 mm as m.	m		in order to run 1 km?
10	Add 2 times 9 to 5 times 9.	* ¹¹¹¹		
11	If 5 sweets cost 30p, what will 15 cost?	р	11	If $\frac{1}{2}$ kg costs 40p, find the cost of (a) 100 g (b) 600 g. (a) p (b) p
12	In the number 9440, how many times greater is the 4 marked x than the 4 marked y?	S	12	In the number 6365, what must be added to the 6 marked <i>y</i> to make it equal in value to the 6 marked <i>x</i> ?

Comprehension Questions To Support The Teaching of Holes By Louis Sachar

Read Chapters 11-15

- 1. Why does X-Ray feel entitled to take what the other boys find?
- 2. Why is Stanley surprised that X-Ray is the leader of the group?

- 3. What does Stanley daydream about as he digs his hole?
- 4. What job does Stanley want to do when he grows up?
- 5. Do you think Mr Pendanski is right when he tells Stanley that it is his own fault that he ended up at Camp Green Lake? Why/Why not?
- 6. How does Mr Pendanski treat Zero? Is he kind or unkind towards him, in your opinion?
- 7. Stanley gives X-Ray a good idea. What is it?
- 8. How does Stanley try to protect Mr Pendanski?

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- 9. How does the warden threaten Mr Pendanski?
- 10. What changes does the warden make after X-Ray's find?
- 11. Why does X-Ray not speak to Stanley about the tube at breakfast? X

- 12. What kind of a person is the warden, do you think? Why?
- 13. The boys believe they are being watched and listened to at all times. Do you think this is true? Can you find evidence to support this view?

Spellings- Week 10



Go to the following link: <u>https://www.ictgames.com/mobilePage/literacy.html</u>

Select-Look, Cover, Write, Check game



Click Yrs 5&6

Click the patterns tab.

Year 1	Year 2 (⊖Yrs 3∂4 1 Tricky Words	¶Yrs 5 € 6	
-cious •	-ible	·	malicious,	
-tious •	-ibly	•	conscious,	
-tial •	-fer-r-ing		atrocious,	
-cial •	hyphen		delicious,	
-ant •	c-ei		gracious, vicious,	
-ance •	-ough-		precious,	go
-ation •				
-ent •				
-ence •				
-able •				
-ably •				

Select you word list and click on go!

Week 10 practise spelling - ance words

Week 10 Day 2: Volume (Corbett Maths) Watch video 75 and complete task.

1.	Each cube has a volume of 1cm ³		3. Each cube has a volume of 1cm ³	
	Write down the volume of the cuboid		Write down the volume of the cuboid	
		cm ³		cm ³
2.	Each cube has a volume of 1cm ³		4. 3cm 10cm	
			Work out the volume of this cuboid	
© Cor	Write down the volume of the cuboid	cm ³	© Corbettmaths 2018	cm ³
5.	3cm		7.	
	Work out the volume of this cube		Work out the volume of this cube	
		cm ³		
6.	4cm 6cm		8. 5cm 22cm 12cm	
	Work out the volume of this cuboid		Work out the volume of this cuboid	
© Co	rbettmaths 2018	cm³	© Corbettmaths 2018	Cm ³

9. Cube A and cuboid B have the same volume.



10. Cuboid A and Cuboid B have the same volume



Calculate the missing height of the cuboid B

cm

cm

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11. A box has a length of 18 centimetres, a width of 4 centimetres and a height of 22 centimetres.



Work out the volume of the box

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12. Here is a drawing of a cube on an isometric grid.



cm³





Compare and Contrast X—Ray and Stanley

Poster Challenge

- 1) Read the Arabian Desert fact file. Highlight at least 6 key facts.
- 2) Use the information you have chosen to make an information poster on the Arabian Desert

Top Tips:

Remember to include some of the following details:

- A heading
- A catchy slogan
- Colourful illustrations
- Diagrams
- A font/or writing that is clear to read
- Bullet point where necessary



The Arabian Desert

What Is a Desert?

A desert is a place where it is often hot and dry during the day, and sometimes very cold at night. It has a lot of sand or rocks and hardly ever rains.

Did you know?

Antarctica is the world's largest desert! This might seem strange as it is not a hot place. However, it is considered a desert because the precipitation (rainfall, snowfall etc.) is very low. It does snow in Antarctica, but not as much as you would think. On average, it may snow about 8-12 inches in a whole year.

The hottest desert in the world is the Sahara Desert. It is located in Africa and it has mostly sand and rock.



Sahara Desert



Antartica

The Arabian Desert

The Arabian Desert is on the continent of Asia.

It stretches across 8 different countries:

- 1. The UAE
- 2. Oman
- 3. Yemen
- 4. Saudi Arabia
- 5. Jordan
- 6. Kuwait
- 7. Iraq
- 8. Qatar





The Arabian Desert



agave plant



cactus plants

Animal Life in the Desert

There are many animals that live in the Arabian Desert. They also have special adaptations that help them to live in the hot, dry conditions.

Camels are able to drink a lot of water at one time. They do not sweat, which helps them to conserve the water that they drink.

Other animals, such as spiny-tailed lizards, do not need to drink any water at all. They have glands that help them to keep hydrated.

Arabian oryx and sand gazelle survive the heat of the desert by grazing at cooler times of the day and finding shade from the heat during the day.

Plant Life in the Desert

Although the desert is very hot and there is very little rain, plants do grow there. These plants have special adaptations that help them to survive the hot and dry conditions.

Some plants have thick stems to store water, such as cactus plants. Others have deep roots that are widespread to collect moisture from the ground. Some varieties of cactus have round stems to conserve water. Many plants have spines instead of leaves to reduce water lost through evaporation.



camel



spiny-tailed lizard



sand gazelle



Week 10 Day 3

Volume of a cuboid **(**



Each small cube has a volume of I cm³.

Find the number of cubes and the volume of each solid.



2

Circle the shapes that have a volume of 10 cm³.









Match the 3D shapes that have the same volume.



cm³

=

×

cm³





Is Ella correct? Explain your answer.



Can you make a cube using exactly 27 smaller cubes? How do you know?



Comprehension Questions To Support The Teaching of Holes By Louis Sachar

Read Chapters 16-19

- 1. What is unusual about Zigzag's television viewing?
- 2. Why, according to Stanley, are the shovels locked up at night?
- 3. How does Stanley's mother feel about his being at camp?
- 4. Why does Stanley's apartment smell bad?
- 5. What is Stanley surprised to learn about Zero?
- 6. Does the warden sound like a reasonable person to you? Why/Why not?
- 7. Why does Stanley write his letter in the tent?
- 8. Why do you think Zero watches Stanley write?

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- 9. In what way has Stanley's heart hardened since coming to camp?
- 10. How do you feel about Zero in Chapter 18? Why?
- 11. Explain how Stanley is in the wrong place at the wrong time in Chapter 19.

12. What sort of boy do you think Magnet is? Why?



GRAMMAR, PUNCTUATION & SPELLING

Same sounds

• For each pair of sentences, think of a word and its homophone to fill the gaps.

1. Stanley is bullied at school about his ______.

Stanley has a long ______ to be found innocent.

2. Stanley feels he cannot ______ Zero and leave him to die.

Sploosh would make a tasty _____.

3. Clyde Livingston is known as 'Sweet _____'.

It is a brave ______ to carry Zero up the mountain.

4. Magnet tells him his first _____ will be the hardest.

The boys have to dig a hole a day the ______ time they are at Camp Green Lake.

5. When Zero sees it, Stanley hides his letter in the _____ box.

The water truck wasn't moving – it was ______ on the dirt track.

6. Stanley drives the truck but he fails to use the ______ in time and crashes.

The boys have short ______ for a drink while they are digging.

Additions

• Extend the following statements using relative pronouns (who, when, which). Remember to use commas to divide clauses. For example:

 $\sim\sim\sim\sim\sim\sim$

Green Lake, which is now a dry wasteland, was the largest lake in Texas.

1. Peach trees once bloomed in Green Lake.

2. Clyde Livingston was a famous baseball player.

3. Kate Barlow had robbed Stanley's great-grandfather.

4. The lipstick case bore the initials KB.

5. Zero was Madame Zeroni's grandson.

6. Trout Walker was the son of the richest man in the county.



Cactus Plant Adaptations

Complete the diagram by filling in the missing words.

water	rainfall	fibrous	
animals	photosynthesis	wide	
evaporation	leaves	roots	



How do plants and wildlife survive in tropical deserts?

The biggest problem in the desert is the shortage of water. Plants and wildlife that live there have to find ways of looking for, and storing, water. This means that they have had to **adapt** to **drought** conditions. Plants will grow a long way from each other so they are not in competition for water. Occasional desert rainstorms can bring plants back to life. Within hours the desert 'blooms' as each plant takes advantage of the extra water.

Look at the diagram below to see how plants have adapted to survive in the desert.



Activity 1

A) Draw a large diagram of either a Prickly Pear Cactus or a Saguaro Cactus.

B) Put the following labels on your diagram and then **explain** how each of the four labels listed helps the cactus plant to search for or store water.

Fleshy stem

Spiky Leaves

Long and shallow roots

Week 10 Day 4

Volume of a cuboid 🕗 Find the volume of each of these cuboids. Volume = $4 \times 2 \times 1$ a) cm³ l cm 4 cm 2 cm Volume = b) × × cm³ 4 cm 3 cm cm Volume = **c)** × × cm³ Volume = d) × × cm³ 3 cm 4 cm 5 cm

Explain two ways you can work out the volume of an $8 \times 7 \times 5$ cuboid.

A sculptor carves a hole that is I0 cm long by II cm wide by 4 cm deep.

He fills the hole with coloured glass.







Letter Home

We know that Stanley wrote home and told his mum that Camp Green Lake was lovely. Why do you think he did this?

Would you do this? Why or why not?

Now it is your turn. Write a letter home as though you are Stanley. This time, you are telling your mum the truth about Camp Green Lake.

Animals in the desert will have to cope with:

Lack of Water

Desert animals have to manage with very little water. Desert animals do not sweat. They make little urine and their dung can be dry a powder. Many animals spend much of the time underground.

The Heat

The desert is very hot during the day but very cold at night. Many animals sleep during daylight hours. They will come out as the sun is setting, searching for food before it gets too cold. Animals that do come out in the day need protection from the hot sun. Long Eyelashes



Their **large ears**, which are usually 6 inches long (15 cms), help dissipate (get rid of) excess body heat on hot days in the desert.
 Their **kidneys** are adapted to restrict water loss, their extensive burrowing may cause the formation of dew, which can then be consumed, and they will receive moisture from the food that they eat.
 Their **burrowing** and **nocturnal** lifestyle helps restrict water loss.

4. Their **thick fur** helps keep them warm at night.

5. Their sandy fur helps to reflect heat, and also provides excellent camouflage.

6. Fennec foxes also have **thick fur on the soles of their feet**, which insulate against the hot sand of the desert. This extra fur on the soles of their feet also affords them excellent traction in the loose sand.

Activity 2

- A) What are the two main problems facing desert animals.
- B) Explain how a Rattlesnake and Fennec Fox cope with the lack of water.
- C) Explain how a Kalahari Squirrel and Camel cope with the heat.
- D) Find an image of a Fennec Fox. Draw and label a diagram of a Fennec Fox to show how it is adapted to desert life.

Padded Feed - stop sinking into the sand and to protect from heat of the ground

> The rattlesnake hides in the cool of the sand waiting for its prey. It has a waterproof skin, so it cannot sweat. It can only loose moisture through its mouth



The Camel

What is a camel?

Where does it live?

What does it eat?

What adaptations help it to survive in its environment?



Week 10 Day 5

Volume

Volume is the amount of space a 3D shape occupies. It is measured in **cubes**, most commonly **cm**³ or **m**³.

Below are **three 3D** shapes made up of **centimetre** cubes. Calculate the **volumes** of these shapes by counting the cubes?



Counting cubes is a very simple way of calculating volume, however it's not always practical to do so.

Calculating volume also uses a formula (a way of calculating that always works) **Volume = length x breadth x height** or **V = L x b x h**







Page 2

Page 3

5. Below is **cube A** and **cuboid B**. They have the **same** volume. Calculate the **value of x**, the **height** of the cuboid.



_____ cm³

(3)



Page 5

12. Look at the two shapes below. One is a cube and the other is a cuboid. Each side of the cube measures 4 cm. The cuboid is twice the volume of the cube. What is the total volume of the two shapes?



13. The **letter F** below is made with **cubes**. **Each side** of one cube measures **5 cm**. What is the **total volume** of the **letter F**?



14. Find the **volume** of the cuboid below.



(3)

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Read Chapters 20-22

- 1. Why does Mr Sir not believe that Stanley stole the sunflower seeds?
- 2. Why does the warden send Stanley to the dressing room?
- 3. What is special about the warden's nail polish?
- 4. Do you think Stanley is brave or foolish for lying to the warden about who stole the seeds? Why/Why not?
- 5. What do you think the warden means when she tells Stanley it is unfortunate for him that Mr Sir did not die? How do you think this makes Stanley feel?
- 6. Do you think Mr Sir regrets telling the warden what has happened? Why/Why not?
- 7. How does Stanley relate to his great-grandfather's experience?

Comprehension Questions To Support The Teaching of Holes By Louis Sachar

- 8. How does Stanley's grandfather explain his survival?
- 9. Why does Stanley decide not to tell the other boys what happened?
- 10. Why does it seem to Stanley as though Zero has X-Ray vision?
- 11. What does Stanley figure out about the gold tube?
- 12. Why do you think Stanley decides to teach Zero how to read? What does this tell you bout Stanley?

13. Do you think Zero is really a stupid boy? Why/Why not?

Design your own Desert Animal

A desert animal is a sandy yellow colour to blend in

A desert animal has large ears

A desert animal has a long tail



Draw a desert animal in the box. Use the information and pictures to help you.