These types of questions how to

It is good fun to know how.

Division of fractions

Maths

Start with a division sum:  $\frac{4}{5} \div 2$  This can be written as  $\frac{4}{5} \div \frac{2}{1}$ 

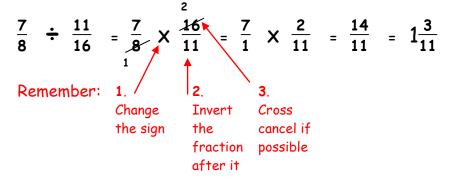
Then change the  $\div$  sign to a X sign and invert (turn upside down) the fraction after it.

This now makes the sum:  $\frac{4}{5} \times \frac{1}{2}$  Then cross cancel if you can:  $\frac{4}{5} \times \frac{1}{2}$ 

So now you get  $\frac{2}{5} \times \frac{1}{1}$  which means  $\frac{2}{5} \times 1$ , so the answer is:  $\frac{2}{5}$ 

This is how you do all division of fraction sums.

Now follow this example carefully - it takes exactly the same steps:



Can you see how this works? Now try these:

1.	<u>2</u> 7	In the maths section there are always some sheets focussing on an	3.	$\frac{4}{5} \div \frac{7}{15} =$
4.	<u>7</u> 8	individual skill that children may find difficult. This one revises division of fractions; others include area, shapes, graphs, long division etc.	6.	$\frac{3}{10}$ ÷ $1\frac{4}{5}$ =
	l			Convert to an improper fraction first ( $\frac{9}{5}$ ),
				then it is easy!

Did you enjoy those?

## Accuracy and Core Maths Skills

• W

•

Yd

• W

and attention to detail is necessary.

• If mistakes are made, it is a strong indication that children will drop marks needlessly in the actual exam. Do this test several times if necessary.

8 + 7 =		9 - 4 =	6 x 7 =	54 ÷ 6 =	8 + 4 =
7 x 5 =		48 ÷ 8 =	8 x 5 =	7 + 8 =	2 - 0 =
12 - 7 =		9 + 5 =	7 x 9 =	42 ÷ 6 =	9 x 8 =
96 ÷ 8 =		5 + 6 =	72 ÷ 6 =	8 - 7 =	54 ÷ 9 =
6 x 3 =		56 ÷ 7 =	7 x 12 =	30 ÷ 6 =	0 + 1 =
5 + 8 =					- 8 =
5 x 6 =	I	n each part	of the cours	e we focus oi	n 6=
5 + 7 =	thi	s important	area in diffe	erent ways. F	or ÷8=
16 - 8 =			ren, being ab		7 =
7 × 6 =		•	is more impo		÷ 9 =
17 - 9 =			nplex skills. U		an + 5 =
8 × 3 =			itely, childre his sheet loo		7 =
11 - 6 =			d accurately	•	• 6 =
8 x 6 =		<b>4</b>	calculations.		9 =
5 x 7 =				_	- 7 =
7 - 2 =		56 ÷ 8 =	8 × 12 =	13 - 8 =	32 ÷ 4 =
3 + 7 =		16 - 7 =	7 + 8 =	4 x 6 =	14 - 6 =
12 - 9 =		9 × 3 =	11 - 8 =	49 ÷ 7 =	5 + 8 =
8 x 9 =		6 + 7 =	27 ÷ 9 =	15 - 4 =	9 x 7 =
72 ÷ 8 =		13 - 9 =	5 × 12 =	4 + 8 =	18 - 7 =

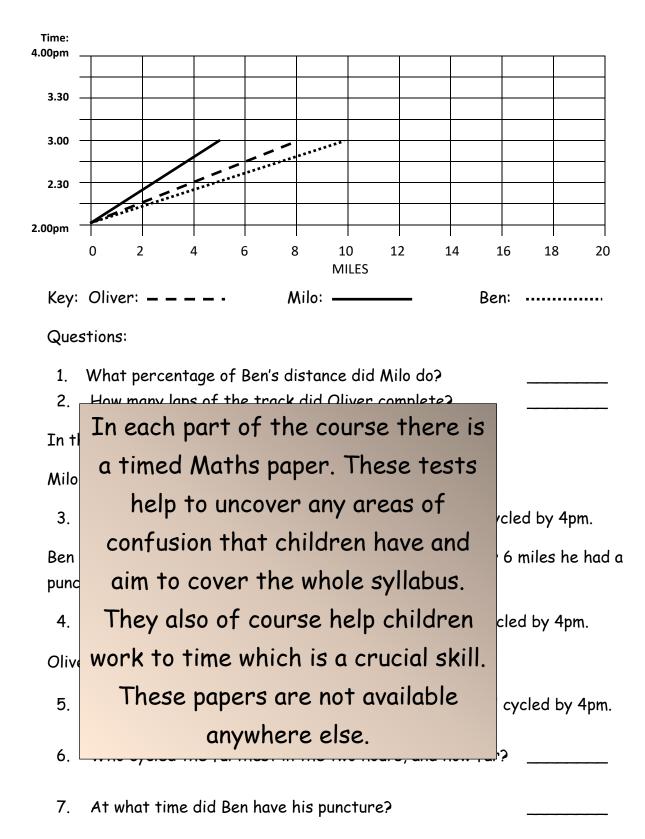


s work

Three friends cycled around c

### Maths Papers

The graph shows how each of them did during the first hour.



MT3P3 © Learning Street 2018

They

1



7.

W

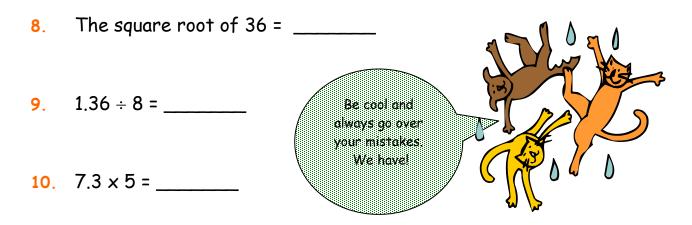
**Revision Test** 



- 1.  $2^5 = 2 \times 2 \times 2 \times 2 \times 2 =$ \_\_\_\_
- **2**.  $10^5 = 10 \times 10 \times 10 \times 10 \times 10 =$
- 3. The perimeter of this parallelogram is 72 cm.

Fi Each part of the course includes a revision test. This one from the end of course includes questions on 30 different topics. CEM Maths 4.5 questions- called Numerical Reasoning-4. tend to stick largely to the syllabus but seek to get children to use their 9.0 5 Maths skills flexibly to solve problems. No one knows which question types may 0 6. come up which is why we include a very wide mix of questions.





Score this week:

### My Personal Words List

Each week you will find new words or words you haven't quite learnt yet. Familiarisation and a wide vocabulary only develops with frequent exposure. Use this sheet to identify new words, then revise them regularly

New Word		Meaning	New word in sentence	
(Write the	new	(Write down its	(Write a short sentence w	vith
word here)		meaning in your own words)	your new word in it)	
	We	include a whole se	ction on vocabulary	
	dev	elopment in each j	part of the course.	
	Voo	cabulary skills are	possibly the most	
	im	portant of all the	skills children will	
			tests over 60% of	
		the questions are		
	-	•	y. This sheet is our	
		•	list. Using it helps	
	child	dren to focus on d	eveloping their own	
		•	nend children try to	
	find	twenty new words	each week through	
	read	ling and through w	vorking through our	
	vo	cabulary developr	nent worksheets.	

### Words from Past Papers

### PAPERS

Fill in the gaps in the sentences below to find the correct word.

- 1. It was stuffy, the \_e n \_ l a \_ i o \_ in the room was not adequate.
- 2. Tom aimed to be as e \_ \_ n o \_ i \_ a \_ with his time as possible.
- 3. The judge was 1 int as she decided on the sentence for We include a number of unique development tools in this section. This sheet seeks to introduce children to/refresh their memory of the type of vocabulary that has come up in previous 11 Plus tests around the country.
- 7. George prevent the spread of bacteria.
- 8. Freddie's \_\_\_ p u d \_\_ t behaviour was always a constant source of frustration for his mother.
- 9. The army had  $es\_ge\_$  the city.
- 10. She asked for a receipt so her boss could \_\_imb\_r\_e her for her expenses.

## Opposites and

# Synonyms

- This test encourages you to trawl your memory to complete the test. Learn any words that you don't get.
- Don't give up, persevere, try different letters and think about possible endings. You will need to persevere and work <u>actively</u> in the exam do not just stare at the page.

### FIND THE SYNONYMS ON THE RIGHT OF THE WORDS ON

1	
	Questions involving
quarrelsome abundant	opposites and synonyms tend
friendly	to come up in verbal
apparition impudence	reasoning and in some
FIND THE OPPOSITES	comprehension tests. We
FIND THE OPPOSITES	focus on theses in each part
plain	of the course.
poverty	p sp t _
smart	_love _l _
cramped	_ pac _ o _ s
straight	c _ oo d

ħ۶,

## **Crossword Revision Puzzle**

The puzzle helps pupils develop perseverance. Work actively, don't just stare blankly at the question- try different letters and think about word endings.



A Ρ R L L А 0 I Ρ Е т L т Т Т G R S S Т Е 10 А L 0 Ν D Υ S L Е т Ρ D R Е р Т Е Т К Ε D R А А В

#### Clues down

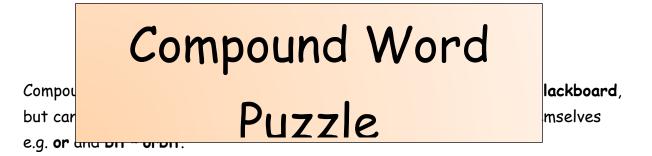
1. Sounds like saw. The act of rising upwards.

M A

R R

- 2. Caught sight of something.
- 3. Similar to joyously.
- 4. To fall down.
- 5. What an insect does to you.
- 7. Fail to meet expectations.
- 9. A coating of gold. Sounds like guilt.
- 13. A place to keep a boat. Sounds like birth.
- Speak to someone <u>OR</u> the location your house.
- 16. A type of animal that has nourishes its young with its own milk. Humans are such animals.

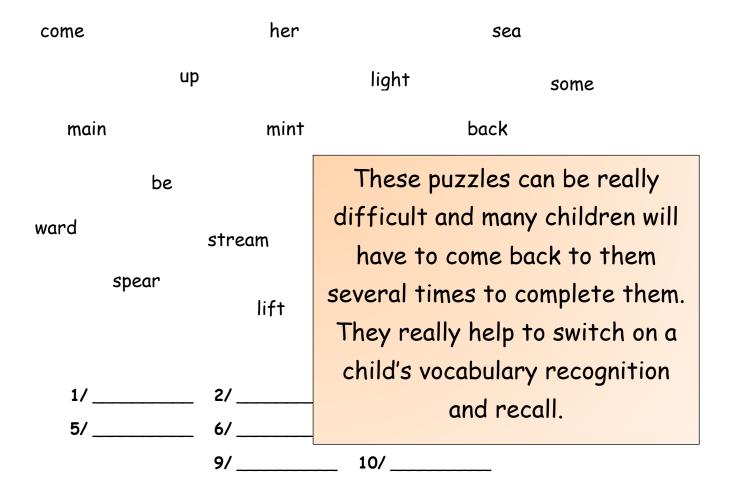
These puzzles do not appear in any 11 Plus test but working through them helps children to develop their vocabulary and bring their existing knowledge to the front of mind. These puzzles also help children to develop the kind of tenacity and active working skills which result in success. We include a crossword puzzle in each part of the course.



Often you will have to alter pronunciation to solve the puzzle e.g. **pop** and **pies** - **poppies** or **do** and **me** - **dome**.

Without using the clues , these puzzles are extremely difficult.

Find ten compound words from these parts of words. (Use each part only once.) Write out the words you have found underneath. Learn meanings and spellings if you don't know them - this is a learning exercise, not a test.



**Clues** 1/ A period of the year 2/chewing gum flavour 3/ A glow in the night 4/ Occasionally 5/ Raise 6/ Evolve 7/ Not fully developed 8/ Towards the higher part of a river 9/ Property that is owned 10/ An oily fish

## **Devilish Double Letters**

Some words have double letters and this can

	cause un	icertainly.				
	Some of or too fe	ittle series of t them either ho ew. Identify th em out correct	ave too mai ne spelling	ny double lett	ers	
	disapoin	t procce	dure	labeled	retirre	ed
		dissappear	posession	occuren	ce arres	sted
	misspel	milleni	m	accquire	dumbell	
	mising	perso	onell	harrass	detertence	
acor	nmodatio		•	ant skill wit		1
		tests and covering mis		le a variety c ls and diffic		
		This shee	t covers d	ouble letters	s and asks	
			•	:h words hav es have too <sup>.</sup>		
				v. Double lett		
		cause co	onfusion a	mongst child	ren and	
		therefore		e up in some	form in 11	
			Plus	tests.		



There is either one mistake or more than one mistake in each of these sentences.

Write each sentence out correctly

- 1. Immediately she ran to the injured woman.
- 2. I saw a cat with it's owner which had a long tail.

3.	A tabl	These sentence correction tests cover
		punctuation, spelling and use of
4.	There	English. In CEM tests these types of
		questions have come up historically but
5.	Someo	not recently; CEM could re-introduce
		these at any point without warning.

- 6. Our teacher is on holiday, the lesson needs to be cancelled.
- 7. He didnt finish his lunch, however he did eat his pudding.
- 8. You should see whose taking the training session.
- 9. "Don't say that" his mother shouted, "I've been working on his all day"!

10. Its on its way, isnt it.

## English Exam Paper

In the following passage there are some spelling mistakes. On each numbered line there is either one mistake, two mistakes or no mistakes. Each line is divided into groups of words with a letter underneath. If there is a mistake, ring the correct letter(s). If there is no mistake ring X.

1)	Mr. Bessel was the	senier partner in the	firm of Bessel. Hart.	and Brown	i, of St.	
	Α	В	С	D		X
2)	Paul's Churchyard,	and for many years he	was well known amo	ung thos	e intrested	
	Α	В	С		D	X
3)	in psychical research	as a liberal-minded	and consciencious inv	estigator.	He was	
	Α	В	С		D	X

Each paper has a comprehension section involving an extract from a classic book; this is the most difficult type of text children could face. The test then has a second section which looks at Grammar, Spelling and Punctuation. CEM exams historically have always included comprehension sections so this work will ensure they are fully prepared for that as well as enhancing their GSP skills should those question types emerge this year.

8) The dogs tail got trapped in the door.

9) Jason's mothers cottage is right next to his girlfriends house.

10) "the weather is glorious," said Patrick.

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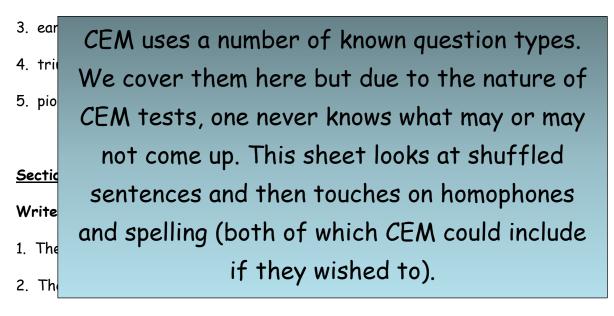
### SHUFFLED SENTENCES TEST

These sentences intentionally use very difficult vocabulary. If you do not know a word, use your personal words list.

Section 1

Order your words in a correct sentence. Identify the one word in each sentence which is <u>not needed</u>. Remember to work actively, try and find the subject of each sentence and come back to any you don't get.

- 1. barb a fished ended hook with the double
- 2. face a of Janes' look anguish raucous crossed



#### Section 3

Choose and write out the correct spelling from each pair given

1. harrass, harass \_\_\_\_\_ dissappear, disappear \_\_\_\_\_



Circle the word that fits best with each sentence.

1. The boys were chasing road.

along before to after

the ball as it bounced down the

This is an alternative word cloze sheet. These questions often come up in CEM tests. Children will work on these each week.

3. Mums always try to take good care of

they're them their **children**. there

4. The Saracens rugby team came out in the second half to set overhauling their opponents

at in about on

5. Swinging from a trapeze is not what most people would a normal pastime

see contemplate think consider



Some of these words will be new to you. Try to find as many as you can. This test includes two styles of question.

#### Section 1

mean

Fill in the blanks in the word on the right so that it has an **opposite meaning** to the word on the left.

smart sl\_\_en\_y

gen\_\_u

Opposites questions are a regular feature of CEM but are asked in different ways. Therefore we include two forms of the test on our opposites sheet to ensure full preparation.

#### Section 2

Choose the word on the right which is **most opposite** in meaning to the word on the left.

perimeter	circuit	circumference	interior	border
queasy	ill	nauseous	well	happy
hesitant	intrusive	stubborn	opinionated	decisive
participated	abstained	disregarded	disengage	profferred
aggravation	brazen	hurtful	dignify	solace



Some of these words will be new to you. Try to find as many as you can. This test includes two styles of question.

#### Section 1

Fill in the blanks in the word on the right so that it has a **similar meaning** to the word on the left.

punish reb\_\_\_

In the same way as opposites; synonyms are also a feature of CEM tests. We include lots of synonyms work in every part of the course to ensure a sound knowledge of them.

#### Section 2

Choose the word on the right which is **most similar** in meaning to the word on the left.

sturdy	hard	robust	vigorous	imperative
bleak	rough	sorrowful	desolate	austere
amend	improve	consider	deceive	deface
lose	loose	misplace	lost	found
resonate	reason	echo	repeat	shatter

### The Great Wall of China



The Great Wall of China, a true wonder of the world, was built more than 2,000 years ago. It is a series of fortifications made of stone, brick, tamped earth, and wood. Wider and taller than a house, it was built to protect the Chinese Empire from attacks from the Mongol tribes to the north. It winds, like a gigantic dragon, for over 5500 miles across deserts and grasslands and over mountains and hills. It is still there today and it can be seen from space. The Emperor who wanted the wall built was cruel. He forced thousands of Chinese men to

leave their homes This story about Meng Jiang-nu liv her husband and i Meng had no idea that she must set She reached the Soldiers were oro who knew her hus body, and the god

CEM tests often include a comprehension section. We include a comprehension test for children in each part of the course in order to keep their skills fresh. r Chinese men to rked to death. suffered: or's soldiers took k for many years. ome, she decided

ted and starving. eng met a worker searched for his ext day the cruel

Emperor came to inspect the wall. He saw Meng and decided he wanted her for one of his wives. He offered her a jewelled tomb for her husband if she would marry him. As soon as her husband had been placed in his tomb, Meng looked with hatred at the Emperor and threw herself off the wall into the raging river below. As she drowned, the gods changed her into a beautiful silverfish.

- 1. How long has the Great Wall been standing?
- 2. Why was it built?
- 3. How long is it?
- 4. Who ordered it to be built?

5. Who built it?

- 6. What was the high price of building the wall?
- 7. Why did the soldiers take Meng's husband?
- 8. How were the builders treated?
- 9. Who helped Meng find her husband's body?
- 10. What made Meng agree to marry the Emperor?
- 11. Why did Meng kill herself?
- 12. What happened to Meng as she was dying?





#### Fill in the blanks. This is a Cloze type exercise.

Remember to work actively. Read the piece through; always use the meaning of a sentence before or after a word to help you. Think about endings. Try some options.

Henry VII came to the \_ h \_ \_ n e in one of the bloodiest b \_ \_ \_ I \_ \_ of the age. Twenty thousand men met in the m i \_ d \_ e of England, the battle was fierce, \_ \_ \_ \_ e n t and brutal.

Sometimes CEM includes tests which are an amalgamation of a comprehension test and a vocabulary test. Children need to complete the missing word using the sense of the text to help them. We include some testing on this area in each part of the course.

grave so it would not become a **fo** \_ \_ point for his **s** \_ **p** \_ \_ \_ **te** \_ **s**.

The body of Richard III was **r** \_ **c** \_ **n** \_ **l y** discovered under a supermarket car park in Leicester just as the history books sug\_\_\_ted.

#### Marks /13

Remember, to improve your cloze performance you need to broaden your vocabulary through reading. Read for at least half an hour per day. Don't worry if you don't get 100%. No one will know every word. Complete the word on the right which has the **most opposite** meaning to the word in bold on the left.

#### Example

	host	swarm	horde	guest	party
1/	humble	menial	modest	arrogant	successful
2/	curse	hate	bless	blasphemy	harangue
3/	trivial	unimportant	incident	error	serious
4/	disperse	scatter	dispel	gather	associate

There is a timed test focussing exclusively on CEM style Verbal Reasoning questions in each part of the course. In this test there is a comprehension with 12 questions, a similar words test, a shuffled sentences test, two opposites tests, two synonyms tests and an alternative word test. Each test is designed to reflect the variety of questions CEM has most recently been using.



Complete the word on the right so that it has a <u>similar meaning</u> to the word on the left.

#### Example:

	treacherous	d <u>an</u> g <u>e</u> r <u>ous</u>
1/	blatant	b z _ n
2/	scarce	e
3/	admonish	rep an _
4/	adversity	mi ort
5/	diminutive	p te
6/	mock	t _ ia _
7/	din	_ p ar
8/	surround	en c
9/	acute	s p
10/	trick	×

/10

### VERBAL REASONING VARIETY TEST 1

1.	Inside the brackets write the letter which will end the first word and begin the				
	SLA()APLE				
2.	Complete this analogy.				
	MEAT is to BUTCHER as is to BAKER				
3.	Underline the word which cannot be made from some or all of the letters of the word MARRIAGE, using each letter not more than once.				
	GRIME MIRAGE MIRE MEAGRE RAGE				
4.	As CEM could change the types of question they				
5.	ask at any time and introduce an entirely new				
	format, we include a VR variety section into				
6.	every part of the course. This is to stretch				
0.	children and ensure that they are thinking				
7.					
1.	flexibly.				
	snow snout sneer snapper snail				
8.	Inside the brackets write the word of three letters which will complete all five words.				
	scape horse shore weed shell ()				
9.	Underline the two words below which are opposite in meaning.				
	prepare wait depart stand arrive arise				
10.	In a certain code TPMFNO means SOLEMN. What does MFNPOT mean				
	in the same code? ()				
11.	Underline the word which does not fit in with the others.				
	sparrow rook lark crow butterfly eagle				
12.	Write the word which has both these meanings.				
	(a) to detect or notice something (b) a speck or a blemish ()				
13.	If 2 3 4 5 6 means OCEAN, then 3 5 6 2 4 means				

Marks

## Non-Verbal Reasoning

С

d

е

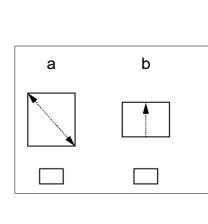
b

а









b

Answers A, B, C and D all st

alternate between dotte dotted shape then altern Non-Verbal Reasoning-CEM- tests include nonverbal reasoning and it's important that children learn flexibly so that they can deal with any question types which may emerge such as spatial questions. We believe the best way to revise is by seeing examples and then doing sample questions with a review

(2)

3

We have identified nine separate core types of question and in each part of the course children will focus on each type individually and then do some practice questions. This sheet is for the Odd Ones Out type.

а

