Do not turn over or open this booklet until told to do so

CEA

Common Entrance Assessment

Paper 2

Saturday 27 November 2010

Time: 1 Hour

Please fill in the following from your admission card:

Your Candidate Number _____

Your Assessment Centre _____

Your Date of Birth

Answer all 58 questions in this booklet

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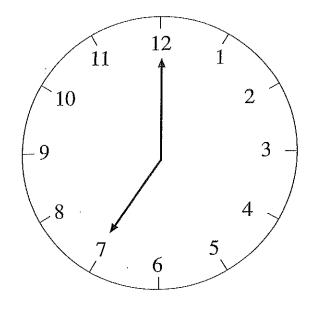
* * *c · ^c.	Page 1
1.	Look at the 2 calculations below. Complete each calculation by finding the missing number. Write your answers in the spaces below.
à	(a) $+ 156 = 425$
	(b) 7 x = 952
2.	The temperature in the fridge section of a fridge-freezer is 5 °C. The temperature in the freezer section is 23°C lower . What is the temperature in the freezer section? Write your answer in the space below.
	°C
	The series of patterns below is made using a mixture of white and shaded square tiles. Pattern 1 contains 4 tiles. It has two white and two shaded tiles.
	Pattern 1 Pattern 2 Pattern 3
]	f this series of patterns is continued, what is the total number of tiles in lattern 6? Write your answer in the space below.

5. Look at Pattern 3 in question 3. In Pattern 3 what percentage of the pattern is shaded? Write your answer in the space below.

Do not write in this column

%

6. Look at the clock face below.



The hands of the clock show that the time is 7 o'clock. What is the value of the obtuse angle between the hands of the clock? Write your answer in the space below.

(

- 7. A film on TV lasts for 100 minutes. It finishes at 0015. At what time did the film start? Write your answer, as a 24 hour clock time, in the space below.
- 8. Mark makes a sequence using this rule:

Take half of the previous number and then add one

Using this rule, write the 2 missing numbers in Mark's sequence below. Write your answers in the spaces provided.

____, 386, 194, ____, 50, 26

The New Boy

The door swung inward. I stood and breathed The new-school atmosphere.
The smell of polish and disinfectant,
And the flavour of my own fear.

I followed into the cloakroom; the walls Rang to the shattering noise Of boys who barged and boys who banged; Boys and still more boys!

A boot flew by me. Its angry owner Pursued with force and yell: Somewhere a man snapped orders; somewhere There clanged a warning bell.

And there I hung with my new schoolmates; They pushing and shoving me; I Unknown, unwanted, pinned to the wall; On the verge of ready to cry.

Then, from the doorway, a boy called out: 'Hey you over there! You're new! Don't just stand there propping the wall up! I'll look after you!'

I turned; I timidly raised my eyes; He stood and grinned meanwhile; And my fear died, and my lips answered Smile for his smile.

He showed me the basins, the rows of pegs; He hung my cap at the end; He led me away to my new classroom... And now that boy's my friend.

John Walsh



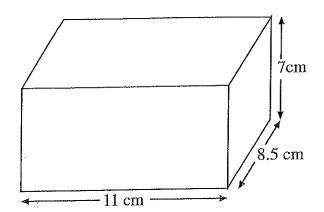
9.	Look at v meaning the space	as the words b	e poem. Which reaking into n	word in verse t nany pieces? W	wo has the same Vrite the word in	Do not Wilt in this colum
10.	In verse is seven wo	rds in verse for	nat the boy is v ar tells us he's t	ery upset. Wha apset? Write the	nt phrase of e phrase in the	
		;				
11.	different r	its is used in the meanings. Comword it's or its	plete the sente	and its sound the nces below corr	e same but have ectly by circling	
	* 1		Tta Ita o no	em about a boy		Z cine
	I enjoyed	reading the poe	m. It s its a po	interesting as it	tells the reader	
	what it's i		, 11 5 11 5 11 110 15	microbing as 10		
	what it si	18. aboui.				
12.		rd in verse six late space below.	has the same m	eaning as respo	nded? Write the	
13.	poem. Tie	s timidly, new, ck 🗹 the correc m as a noun, v	t box to show	atmosphere are whether each on adjective.	used in the he has been used	
		noun	verb	adverb	adjective	
tim	idly					
nev	v			7100		
pur	sued					
atn	osphere					
	L				'	
			,			

GO STRAIGHT TO PAGE 5

(5)

14	of the verbs in	t of four verbs below. Write the presen the spaces below. Be careful with you as been done for you.	t tense of each or spelling.	Do not write in this colum
ē	swung	swing	\%	
	hung			
	grinned			
	breathed			
15.	According to the	ne poem, only two of the statements belocorrect statements.	ow are correct .	
	The boy is frigh	tened because	المارية المستعلق الم	
	he is new to the	school and everything is unfamiliar.		E CÁST .
	there is a lot of n	oise and confusion in the corridor.		
	he isn't good at a	nything related to mathematics.		
	there is a lot of no	oise and confusion in the cloakroom.		
¢				
		y	t	
~~~~ <u>~</u> ~	The second secon			177 P. alastrian A. and Career and Career
	A CONTRACTOR OF THE CONTRACTOR	GO STRAIGHT TO PAGE 6	A A SAN A SA	Administration of the street o

16. The cuboid below is 11 cm by 8.5 cm by 7 cm.



How many edges does the cuboid have? Write your answer in the space below.

17. What is the area of the largest face of the cuboid? Write your answer in the space below.

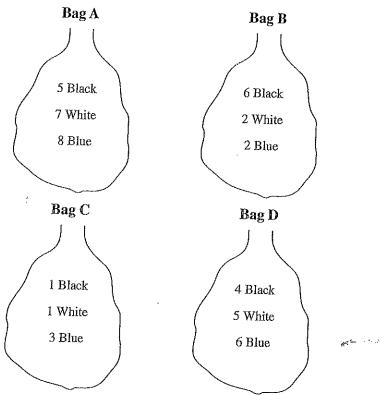
_____cm²

18. What is the volume of the cuboid? Write your answer in the space below.

- cm³

19. How many quarter-litre glasses can be filled from a container which holds 12.5 litres of fruit juice? Write your answer in the space below.

20. Four bags contain coloured counters. The bags are labelled A, B, C and D. The contents of each of the 4 bags are shown below.



Jenny is asked to take 1 counter from each bag without looking into the bag. From which bag is she most likely to take a blue counter? Write your answer A, B, C or D in the space below.

Bag _____

21. Look at the menu below.

MENU
Fish _____ £3.25
Chips ____ £1.80

Calculate the cost of 2 fish and 3 portions of chips. Write your answer in the space below.

£,____

## Look at the function machine below. 22. Answer Starting number +6 ÷4 10 Now look at the two function machines below. The answer is missing in function machine (a) and the starting number is missing in function machine (b). Complete the two function machines below by writing the correct number in the blank arrow. Answer Starting number ÷4 +6 22 (a) Answer Starting number 24 ÷4 +6 **(b)** Look at the number below 23. 86.235 What is the value of the 3 in this number? Tick $\square$ the correct answer. 3 tenths 3 hundreds 3 hundredths 3 tens 3 thousandths 3 units (2)GO STRAIGHT TO PAGE 9

The passage you are about to read contains five errors. Read the passage and then answer the questions that follow it.

### **Text Messaging**

CR ECC 1	
SMS language, also known as textspeak, is a term for the	(line 1)
abbreviations and slang most commonly used in mobile phone	(line 2)
text messaging, though its use is common on the Internet.	(line 3)
including e-mail and instant messaging.	(line 4)
This language for sending and recieving text messages is	(line 5)
becoming more common, Many people still claim not to	(line 6)
understand a word thats being written.	(line 7)
Websites are now providing text translators for confused	(line 8)
parents, as the older generation tries to keep up with	(line 9)
today's technologically advanced youth.	` /
Many parents are worried about their children's poor	(line 10)
literacy of a regulation of the	(line 11)
computer or communicating via text on mobiles.	(line 12)
Coeffish arominations 1	(line 13)
Scottish examinations where criticised recently for accepting	(line 14)
answers given in text message language, provided they were	(line 15)
correct and showed understanding.	(line 16)
What is the world coming to. There must be an effort made, on the	e (line 17)
part of educators and parents alike, to encourage children in	(line 18)
their use of standard English.	(line 19)
	(

Each line is numbered. There is an apostrophe missing from one of the 24. words in the passage. Tick the number of the line containing the word with the missing apostrophe.

25.	A question mark passage. Tick aneeded.	is needed instead of a full stop in one line of the the number of the line where the question mark is	Do:n in this	ot writes column
	line 4		THE PARTY OF THE P	7,7777,111.11
	line 10		-	
	line 16			
	line 17			
26.	stop rather than a	e passage a comma has been used incorrectly. A full a comma should have been used. Tick the number of this error was made.	i jar	
	line 3			
	line 6			
	line 9			
27.	There is a spellin line containing the	g error in one of the lines. Tick the number of the ne spelling error.		
	line 5			CALIFORNIA III.
	line 8			
	line 12			
	line 13			
		F	The same of the sa	
<del></del>		GO STRAIGHT TO PAGE 11	(3	B)

28.	A word has	been used inco ere the error wa	orrectly in the pasts made.	ssage. Tick			Do n In this	ot write column
b	line 9				15			
	line 11							
	line 14							
	line 15							
	í	:						
								-
					get the control of	% <b>∈</b> }		
						-		
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		à						
			r		Į.			
			*					
	Company Compan	GO STRAIG	SHT TO PAGE 12				(1)	~===

(1)

	minutes	
How mu answer i	is a member of a gym. It costs her £19.50 each month. ch in total does she pay to the gym in 1 year? Write your in the space below.	
£		<b>.</b>
The temperiod. T	perature at an airport is recorded every 4 hours for a 24 hour he results are shown on the graph below.	
		ન્_ું હેલા
6	4	
Temperature (in °C)	3	
afure	2	
npera		
<u> </u>	O Time	
	Midnight 4am 8am Noon 4pm 8pm Midnight	
	-2	
	-3 —	
	-4	
	-5	
	-6	
ų.	-7	
	-8	

<b>32.</b>	William thinks of 2 consecutive numbers. When he adds the numbers
	he gets 19. When he multiplies the numbers he gets 90 What are the
	two numbers William thinks of? Write your answers in the spaces below



33. Barra went on holiday last summer. He spent 35 minutes getting to the airport from his home. He then spent 1 hour at the airport before his flight. The flight lasted for 2½ hours. Barra was at his holiday hotel 50 minutes after landing at the airport. How long did it take him in total to get from his home to his hotel? Write your answer in the spaces below.

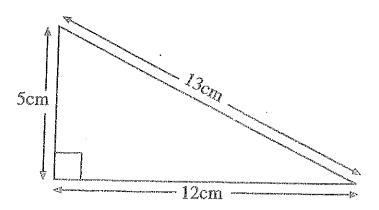
 hours	minutes
 TOOTS	 HIHIULES

34. Use the information in the first statement below to complete the other statement. Write your answer in the space below.

$$\frac{1}{5}$$
 of **c** = 8

$$50\%$$
 of  $\mathbf{c} =$ 

35. Look at the right-angled triangle below.



Find the perimeter of the triangle. Write your answer in the space below.

_____ cn

Find the area of the triangle. Write your answer in the space below.

____ cm

21	TT .		_			
36.	Here	are	5	fra	ctio	ns:

 $\frac{5}{6}$   $\frac{7}{9}$   $\frac{29}{36}$   $\frac{7}{12}$   $\frac{13}{18}$ 

Which is the smallest fraction? Write your answer in the space below.

**3.** Car

Sw	ift Things	are Beautiful			Do not write
Swa And Brig Riv Win The	ift things are allows and of lightning to ght-veined a ers and met and in the what strong-with runner's su	leer, hat falls, nd clear, eors, eat, ered horse,			
The That The The And	closing of o	vave vnward to spray, crumbles, wer, moves on			ي د نه:
	Eli	zabeth Coatsworth			
37. 38.	The poet of the po	tick the true sent thinks that only swift lescribes the opening writes about the joy on is used in verse to	It things are beautiful.  g of a flower as slow.  of life in the city.  two of the poem. The plu	Hral of ox is	
	oxen. Wi	ite the plurals of th ne has been done fo	ne following words in the or you. <b>Be careful with y</b>	spaces below. our spelling.	
	horse	horses			
	deer			j	
	monkey		į.		
	sheep				
Bi-type of party		GO STRAI	GHT TO PAGE 16		(3)

	Page-16		e nemen personne et
39	Look at the <b>four phrases</b> below. The phrases all appear in the poem. Tick \( \subseteq \) the phrase <b>closest in meaning</b> to the words:	Do In 1	not writ ils colum
	small pieces of wood or coal burning in a fire.		
	Lightning that falls		
	Bright-veined and clear	777.666	
	The ember that crumbles		
	In the quiet of power		
40.	The poem refers to sure feet. Who or what has sure feet? Tick \( \subseteq \) the correct answer below.	€ 6.18°	
	the deer		
	the ox		
	the runner		
	the horse		-
1.	Tick    Tick    the statement below that best describes the poem.		7,77,70,00
	Swift Things are Beautiful is		
	a poem about the beauty found in nature.		
,	a poem about really beautiful animals.		
	a poem about the changing weather.		
	į		
	ł		

GO STRAIGHT TO PAGE 17

<b>42.</b>	Swift and slow are opposites. Find the word opposite in meaning to each of the words below. Write your answer in the space provided. The answers all appear in the poem.		Do no in this	i write column
	ugly			
	uncertain			
	upward :			
43.	The four phrases below appear in the poem. Tick $\square$ the phrase which is closest in meaning to the word evening.	- 1		
	Lightning that falls		:	
	The closing of day	∙ప్రకేశ		
	The pause of a wave			
	The quiet of power			
	·			
Ç-				
	F.			

CO STRAIGHT TO PAGE 18

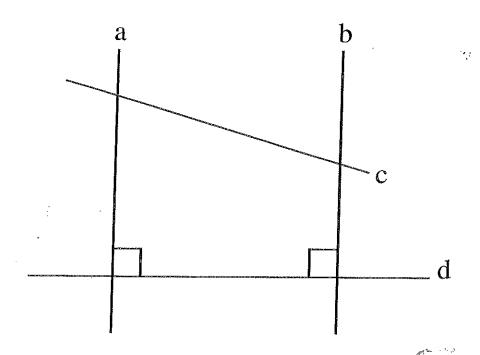
(3)

Ţı

3'

38

44. The figure below shows 4 lines a, b, c, and d.



Tick ✓ each of the statements below true or false.

	True	False
Line a is parallel to line b		
Line c is parallel to line d		
Line a is perpendicular to line c		
Line a is perpendicular to line d		

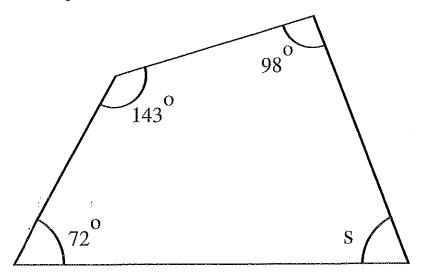
45. A square number can be added to a prime number to make 39. There are two ways of doing this. One of the ways is given below:

$$36 + 3 = 39$$

What other square number can be added to a prime number to give 39? Write your answer in the boxes below.

+ = :

46. Look at the quadrilateral below.



The angles of the quadrilateral are 98°, 143°, 72° and s. Work out the size of the angle s. Write your answer in the space below.

47. Simon played a computer game. The computer game recorded his score each time he played it.

He played the game 9 times.

His mean (average) score was 12

The range of his scores was 10

His highest score was 16

What was Simon's lowest score? Write your answer in the space below.

**48.** What was Simon's **total score** for the 9 games he played? Write your answer in the space below.

(3)

49.	Look	at the	4 nnn	hare	below
アノ・	LUUK	<i>a.</i> i	4 111111		1003713337

0.11977

1.1977

11.977

119.77

The answer to the **calculation below** is one of these 4 numbers. Write the correct number in the space below.

$$1197.7 \div 100 =$$

50. A piece of glass is one millimetre thick.

Look at the 4 statements below. One of these statements is correct. Tick  $\square$  the correct statement.

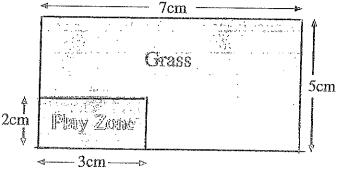
The thickness of the glass is one tenth of a metre

The thickness of the glass is one hundredth of a metre

The thickness of the glass is one tenth of a centimetre

The thickness of the glass is one hundredth of a centimetre

51. Look at the plan of a garden below. In one corner of the garden is a children's "play zone". The garden and the play zone are both rectangular. The ground in the play zone is made of soft plastic material. The part of the garden outside the play zone is covered with grass.



On the plan: I centimetre represents 3 metres.

(a) Find the area of the play zone on the plan. Write your answer in the space below.

	,
هوالمام الشعادات وسياداتها فلطافة فالما المستوجع الماسية الماسية الماسية والمستوجع الماسانة الموادات	cm'

b) Find the actual perimeter of the part of the garden which is covered with grass. Write your answer in the space below.

 met	TO:

#### Page 21

#### The Fox in Winter

"Hey!" Dave was calling her from the beach below, and she climbed down to him. Beyond them was a stretch of massive boulders, fallen in times past from the cliff face, and they clambered over them, leaping from rock to rock. The waves surged forward, rushing between the rocks and splashing over the top. The force of the water made Fran feel dizzy, if she looked at it.

They leaped down to a small beach. The tide had just cleared it, and there was not a mark on the smooth stretch of sand. They ran across it, and turned to look back at their two sets of footprints. No holiday-makers ever found their way here.

Before them stood the arched mouth of the cave, as big as a chapel. The tide had built up the sand across the entrance, trapping a large pool; sunlight reflected from the surface struck the roof of the cave, so that a shimmering light played over the stone.

They waded through. As they broke the surface, the light on the roof shattered; it danced frantically until they reached the sand beyond, and then gradually it settled down. A few drips of water fell from above, and the chill of the cavern struck them.

The rocks rising out of the sandy floor, with smaller pools around them, were covered with shiny seaweed. Mr Trelor once said that this was laver; they used to boil it and eat it as a vegetable. She scraped a sample into a plastic bag.

John Branfield

52.	Who is exploring the cave? best answer.	Look at the answers below and tick $\square$ the
	Fran and Mr Trelor	
	Dave and Mr Trelor	
	Fran and Dave	
	Fran, Dave and Mr Trelor	

 $\overline{(1)}$ 

W C

3** * 100 t3 =	e e e e e e e e e e e e e e e e e e e		Page 22	nar garyuud shaki oli ai surigerii. Histoonin ki koova seembeema agamuu toolis amiimte	pringepers and a paper of the second section.
53	tells us tha	aragraph one. Find that the boulders have be helow.	he phrase of thre been there for a l	e or four words which long time. Write the	Do not write in this column
54.	Only one o	of the four sentences age, tick I the true	below is true. <b>B</b> sentence.	ased on your reading	
	The beach	is a búsy tourist spot.			
	It is a brigh	t and sunny day.			
	The entranc	e to the cave is small			
	The sea is c	alm and still.		gg to a second	- <del>-</del>
<b>5</b> 6.	containing the	mile in one sentence he simile in the space	below.		
S. O.	three words	d closest in meaning you're searching for a aswers in the spaces I	re in paragraph	ords below. The one of the passage.	
	big				
	jumping				
	giddy		ł	1	
<u> </u>		GO STRAIGHT	'FO PACE 23		(5)

57.	Look at pa	ragraph four of the passage below. One of the sentences	e. Now look at the <b>four</b> is <b>true</b> . Tick $\square$ the true sente	Do not write in this column
5	A light bulb on the roof of the cave shatters.			
	Dave and Fran begin to dance in the cave.			
	Dave and Fran wade through a pool of light.			
	The pool of water reflects light onto the roof.		roof.	-
58.	The word frantically is used in the passage. This is an adverb.  Write the adverb for each of the following words below in the space provided. Be careful with your spelling. The first one has been done for you.			ne
	happy	happily		€ Silver .
	slow			
	funny	*		
		·		
			·	
<b>O</b> .				
,		¥	•	
				1 1

LOOK OVER YOUR PAPER UNTIL TIME IS UP.

(3)