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 _

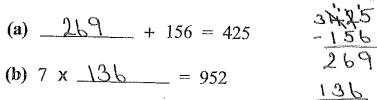
Your Date of Birth

Answer all 58 questions in this booklet

	NOT IN B MAT I	YTHE P	UPIL	S S
Page	Marks	Score	Che	ck
1	(4)			
2	(4)			
6	(4)			
7	(2)			
8	(2)			
12	(3)			
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20	(3)			
ТОТА	L 32			

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10	(3)						
11	(1)						
15	(3)						
16	(3)	,					
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21	(1)						
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TOT	AL 32						
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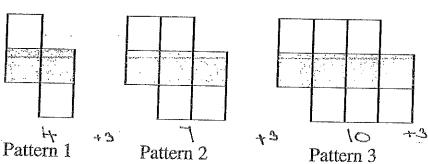
1. Look at the 2 calculations below. Complete each calculation by finding the missing number. Write your answers in the spaces below.



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.

-18 °C

3. 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.



If this series of patterns is continued, what is the total number of tiles in Pattern 6? Write your answer in the space below.

J.G

_____19_____ tiles

4. Another pattern in the same series has 11 shaded tiles. What is the total number of tiles in this pattern? Write your answer in the space below.

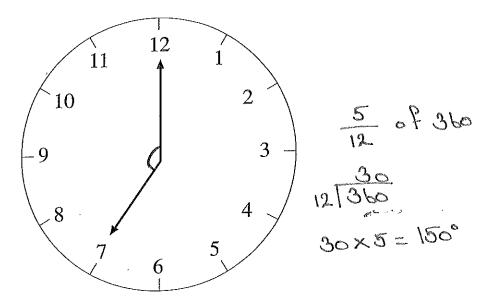
___31____ tiles

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

٠,٠

HO _%

Look at the clock face below. 6.



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.

A film on TV lasts for 100 minutes. It finishes at 0015. At what time 7. did the film start? Write your answer, as a 24 hour clock time, in the 00:00 -> 23:00 -> 12.35 space below. 60 mins

animol

22:35

Mark makes a sequence using this rule: 8.

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. $386-1=385 \times 2$ $2\sqrt{1914}$ 386-1=385 x2

17a, 386, 194, 98, 50, 26

(4)

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



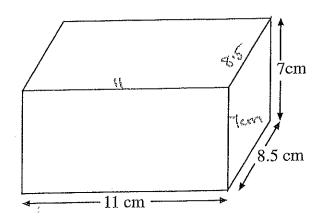
meaning as the words breaking into many pieces? Write the word in the space below. O. In verse four we learn that the boy is very upset. What phrase of seven words in verse four tells us he's upset? Write the phrase in the space below. O. The word its is used in the poem. It's and its sound the same but have different meanings. Complete the sentences below correctly by circling either the word it's or its in each case. I enjoyed reading the poem (It's its a poem about a boy arriving at a new school. In particular, it sais title is interesting as it tells the reader what it is about. 2. What word in verse six has the same meaning as responded? Write the word in the space below. O. D.		and the second	, C.41- o	waam Whiah x	word in verse tx	o has the same	Dorio
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word in the space below. 3. The words timidly, new, pursued and atmosphere are used in the poem. Tick I the correct box to show whether each one has been used in the poem as a noun, verb, adverb or adjective. noun verb adverb adjective		new school	ol. In particular,	em It's Its a poo	em about a boy anteresting as it to	arriving at a	€ E9:
3. The words timidly, new, pursued and atmosphere are used in the poem. Tick I the correct box to show whether each one has been used in the poem as a noum, verb, adverb or adjective. noun verb adverb adjective	2.			nas the same m	eaning as respo r	nded? Write the	
poem. Tick I the correct box to show whether each one has been used in the poem as a noun, verb, adverb or adjective. noun	•	<u>anns</u>	besse				
timidly new pursued	3.	noem. Tie	$\operatorname{k} olimits$ the correc	t box to show w	whether each one	e has been used	
timidly new pursued		6.	noun	verb	adverb	adjective	
new pursued	 timi						
pursued							
	UUL						١
		osphere	. AF	1		1 1	L1

(5)

14	or mic Act D2	list of four verbs below. Write the prese in the spaces below. Be careful with yo has been done for you.	nt tense of each our spelling.	Do not w in this colu	
ò	swung	swing	· Ç		
	hung	hang			
	grinned	- gent			
	breathed	-broatho.		2	
15.	According to Tick \(\sqrt{1} \) the two	the poem, only two of the statements be o correct statements.	elow are correct .		
	The boy is fri	ghtened because			
	he is new to th	e school and everything is unfamiliar.	200	97	
	there is a lot of	noise and confusion in the corridor.			
	he isn't good at	anything related to mathematics.			
	there is a lot of	noise and confusion in the cloakroom.	V	2	
Ş.			į		
		ı	,		

GO STRAIGHT TO PAGE 6

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.

12.

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

93.5 cm²

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

654.5_cm³

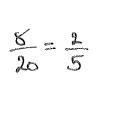
(4)

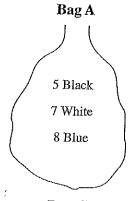
19. How many quarter-litre glasses can be filled from a container which holds 12.5 litres of fruit juice? Write your answer in the space below.

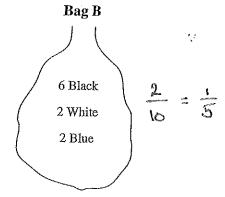
<u>50</u>

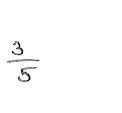
20. Four bags contain coloured counters. The bags are labelled A, B, C and D. The contents of each of the 4 bags are shown below.

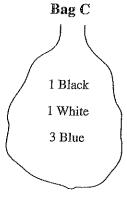


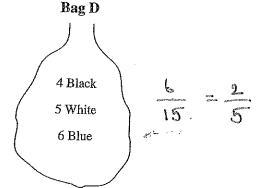












Jenny is asked to take 1 counter from each bag without looking into the bag. From which bag is she most likely to take a blue counter? Write your answer A, B, C or D in the space below.

Bag _ C

21. Look at the menu below.

		CA A SECTION AND A CONTRACT CONTRACT
of the state of th	MENU	·
Fish		£3.25
Chips		£1.80

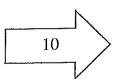
Calculate the cost of 2 fish and 3 portions of chips. Write your answer in the space below.

$$3.25 \times 2 = 6.50$$

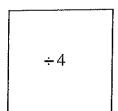
 $1.80 \times 3 = +5.40$
 11.90

		0 11	9 1	11
22.	Look at the	tunction	machine	below.

Starting number



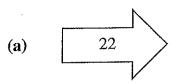
+6



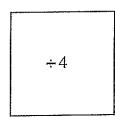
Answer 4

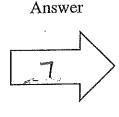
Now look at the two function machines below. The **answer** is **missing** in function machine (a) and the **starting number** is **missing** in function machine (b). Complete the two function machines below by writing the **correct number in the blank arrow**.

Starting number

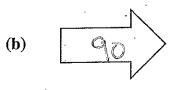


+6

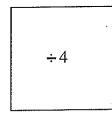


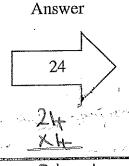


Starting number



+6





23. Look at the number below

86.235

What is the value of the 3 in this number? Tick \(\sqrt{the correct answer.} \)

3 hundreds

- 3 tenths

- 3 tens
- 3 hundredths

3 units

3 thousandths

|--|--|--|--|

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

Text Messaging

CRECI	
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 that's 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 as a result of hours spent in front of a	(line 11)
computer or communicating via text on mobiles.	(line 12)
Scottish examinations where criticised recently for accepting	(line 13) •••
answers given in text maggage language in the	(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	(line 17)
part of educators and parents alike, to encourage children in	(line 18)
their use of standard English.	(line 19)
	,

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

line 3	
line 7	
line 9	
line 14	

25.	A question marl passage. Tick	k is needed instead of a full stop in one line of the the number of the line where the question mark is	Do not write in this column
	line 4		
	line 10		
	line 16		
	line 17		
26. ₋	stop rather than	e passage a comma has been used incorrectly. A full a comma should have been used. Tick the number of this error was made.	
	line 1		ا الله الله
	line 3		
	line 6		
	line 9		
27.	There is a spelli	ng error in one of the lines. Tick \square the number of the he spelling error.	
	line 5		
	line 8		
	line 12		
	line 13		
		1	
		GO STRAIGHT TO PAGE 11	(3)

n	44
Page	- 1 1

28.	A word h the line w	as bee here t	n used inc he error w	correctly in vas made.	the passage	. Tick 🛭 th	e numbe	er of		not wi is colu
b	line 9			,			•			
	line 11						ing.			
	line 14									
	line 15								,	
	;									
	•									
						ggillan - 1 to 1				
								* 3 € (\$1)		
				-						
		•						7,		
							1			
				i						
**************************************		r	M STID A TA	GHT TO PA	6 X 11				(1)	

(1)

29. An athlete takes 9 minutes to run 3000 metres at a steady speed.

How long would she take to run 1 kilometre at the same steady speed?

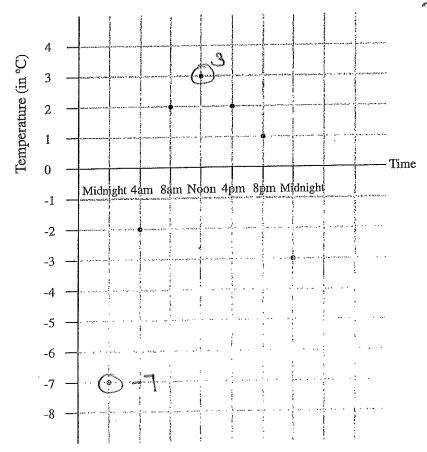
Write your answer in the space below.

 $\frac{1}{3}$ of 9

Roseagh is a member of a gym. It costs her £19.50 each month. How much in total does she pay to the gym in 1 year? Write your answer in the space below.

£ 234.00

- £ 234.00
- 31. The temperature at an airport is recorded every 4 hours for a 24 hour period. The results are shown on the graph below.

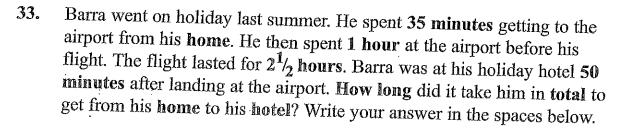


What is the difference between the highest and lowest temperature recorded? Write your answer in the space below.

(3)

32.	thinks of 2 consecutive numbers. When he adds the numbers
	ne 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

two numbers	William	thinks	of?	Write your	answers i	n the spaces
_10	9					14:

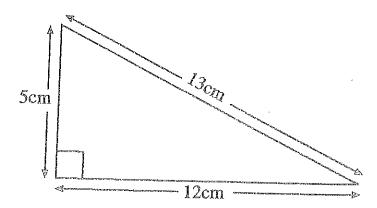


L .	houre	B. K.	minutes	35 +	- po +	150+5	Ö
	nours		minutes		295	arin	

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 $c = 8$ $c = 8 \times 5 = 40$ 50% of $c = 20$

35. Look at the right-angled triangle below.



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

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

$$\frac{30}{2} \quad \frac{60}{2} = \frac{30}{2}$$

(4)

Here are 5 fractions: 36.

(1)

S	wift Things are Beautiful			Do n	ot wri
Sv A Bı Ri W Th	wift things are beautiful: wallows and deer, nd lightning that falls, right-veined and clear, vers and meteors, ind in the wheat, he strong-withered horse, he runner's sure feet.			in Luis	
The The The The And	ad slow things are beautiful: e closing of day, e pause of a wave at curves downward to spray, e ember that crumbles, e opening flower, d the ox that moves on he quiet of power.		V _a ∈ 9°	The second secon	
	Elizabeth Coatsworth				
37.	Only one of the following sentences is true. Based on the poem, tick the true sentence. The poet thinks that only swift things are beautiful.	n your reading of			
	The poet describes the opening of a flower as slow.				
	The poet writes about the joy of life in the city.				
38. .	The word ox is used in verse two of the poem. The ploxen. Write the plurals of the following words in the The first one has been done for you. Be careful with y	e spaces below.		7,700	
	horse <u>horses</u>				
	deer door	es ()			
	monkey <u>montage</u>	2 corrects	f*3		
	sheep shoop				
	GO STRAIGHT TO PAGE 16			(3)	

39	Look at the four phrases below. The phrases all appear in the poem. Tick ✓ the phrase closest in meaning to the words:	in	o not wr this colu
	* small pieces of wood or coal burning in a fire.		
	Lightning that falls		
	Bright-veined and clear		
	The ember that crumbles		
	In the quiet of power		
40.	The poem refers to sure feet. Who or what has sure feet? Tick / the correct answer below.	£.39*	
	the deer		
	the ox		
ē	the runner		
	the horse		
41.	Tick ✓ the statement below that best describes the poem.		
	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.		
	1.		
	į·		

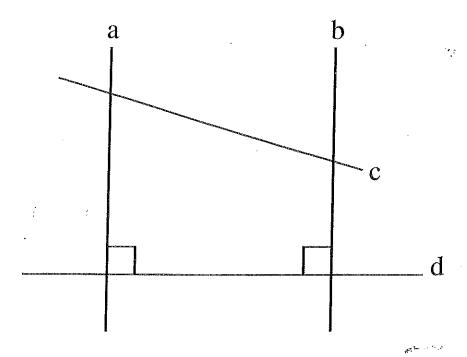
GO STRAIGHT TO PAGE 17

	Part Control of the C				
42.		posites. Find the word op w. Write your answer in the rin the poem.		Do n in this	ot Wilte Scolumi
	ugly <u>boar</u>	tigul		and the second s	-
	uncertain Sure	•			
	upward <u>down</u>	uhrd		2	
43.	The four phrases below closest in meaning to t	w appear in the poem. Tichhe word evening .	k☑ the phrase which is		
	Lightning that falls				
	The closing of day		get en	د اونی _{وی}	
	The pause of a wave				
	The quiet of power				
6					
	•				
•.			A.		
		<i>A</i> *			

GO STRAIGHT TO PAGE 18

(3)

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		2
Line a is perpendicular to line c		
Line a is perpendicular to line d		

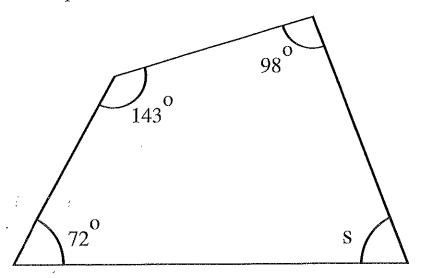
45. A square number can be added to a prime number to make 39.

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.

0
 _

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.

108

9 x 12

% €.91

49.	Look	at th	e 4	numbers	halow
47.	LOUK	ai iii	U 4	numbers	below.

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.

$$1197.7 \div 100 = 11.977$$

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

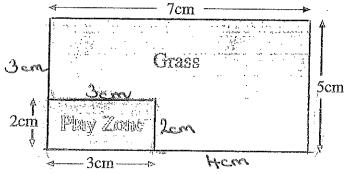
The thickness of the glass is one hundredth of a metre

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.

L cm²

(b) Find the actual perimeter of the part of the garden which is covered with grass. Write your answer in the space below. P. 21, 550

1cm=3m

<u>×3</u>

GO STRAIGHT TO PAGE 21

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

E 5.31

<i>52.</i>	Who is exploring the cave? best answer.	Look at the answers below and tick ✓ the
-	Fran and Mr Trelor	
	Dave and Mr Trelor	
	Fran and Dave	
	Fran, Dave and Mr Trelor	<i>!</i>

ý	Look at paragraph one . Find the p tells us that the boulders have been phrase in the space below.	there for a lo	ong time. Write	e the	in th	iis ec
	faller in.	times f	· cake		September	
ļ.	Only one of the four sentences belo of the passage, tick \(\sqrt{1} \) the true sent	ow is true. Ba	sed on your re	ading		
	The beach is a busy tourist spot.					
	It is a bright and sunny day.					
	The entrance to the cave is small.					
	The sea is calm and still.		Martin Carlo			
	'as' or 'like'. For example: The child There is a simile in one sentence of the containing the simile in the space bel	he passage. W	rite the senter	ice		
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GO STRAIGHT TO PAGE 23

57.		ragraph four of the past below. One of the senter			ence.	Do n lin this	ot writ colun
6	A light bull	o on the roof of the cave	e shatters.				
	Dave and F	ran begin to dance in th	e cave.				
	Dave and F	ran wade through a poo	l of light.				
	The pool of	water reflects light onto	o the roof.				
58.	Write the ac	rantically is used in the liverb for each of the fore careful with your sp	llowing words be	low in the spac			THE
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