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

CBA

Common Entrance Assessment

Paper 1

Saturday 14 November 2009

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

Association for Quality Education Limited

NOTE O BEFIELD IN BYTHE PURIL MATHEMATICS								
Page	Marks	Score	Check					
1	(4)							
2	(3)							
3	(1)							
7	(2)							
8	(2)							
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19	(2)							
20	(3)							
TOTA	L 32							

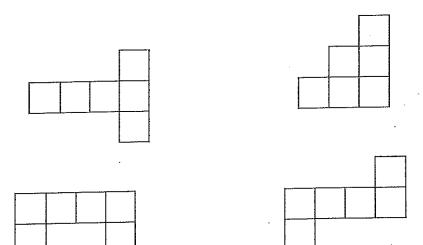
ENGLISH							
Page	Marks	Score	Check				
4	(3)						
5	(5)						
6	(3)						
11	(1)	-					
12	(4)						
15	(1)						
16	(6)						
17	(1)						
21	(2)						
22	(6)						
TOT	AL 32						

1	. Th	e 10 nes c	numb of 10 p	ers be orimar	elow y scl	show 100l j	v the roupils	umb	er of	ele	ectronic gadg	gets in th	te	in	o not wr this colu
	5	2	8	3	8	3	5	7	7		2				
	Wh Wri	at is te yo	the m our ans	ean (a swer in	vera the	ge) n spac	umbe e belo	r of g	gadge	ts?	,				
	(** **********************************		g	adgets	•										
2.	Wha	it is t	he ran	the 10 nge? wer in ndgets.	the			w.							
3.	The	cubo	id belo	ow is 6	ó cm	by 3	.8 cm	by 2	cm.	**************************************					
				6 cm					3.8 cm		2 cm				
	What space	is the	volu w.	me of	this	cubo	id? V	Vrite	your	an	swer in the				
			_ cm ³	i											,
(a)	What i space l	s 7:5 pelov	5 2 am v.	as a 24	4 ho	ur cl	ock ti	me?	Writ	е у	our answer	in the	- Company		
(b)	What is space b	s 7:5	2 pm .	as a 24	4 ho	ur cl	ock ti	me?	Write	e y	our answer	in the			
			-												

5. Complete the table below by putting a fraction or a percentage in each of the four empty boxes.

Percentage	331/3%		75%	-	20%
Fraction		1/2		1/4	¹ / ₅

6. A net of a cube can be folded to make a cube. Look at the four figures below. Circle the two figures that are nets of a cube.



7. Look at the two calculations below. Complete each calculation by finding the **missing number**. Write your answers in the spaces below.

Look at the function machine below. 8. 5 +3 **x** 4 32 Number in Number out Complete the two function machines below by writing the correct number in the blank arrow. (a) 9 +3 x 4 Number in Number out **(b)** +3 **x** 4 12.8 Number in Number out

GO STRAIGHT TO PAGE 4

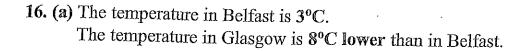
 $\overline{(1)}$

Homework! Oh, Homework!	Do no in this	t write column
Homework! Oh, homework! I hate you! You stink! I wish I could wash you away in the sink, if only a bomb would explode you to bits. Homework! Oh, homework! You're giving me fits.		
I'd rather take baths with a man-eating shark, or wrestle a lion alone in the dark, eat spinach and liver, pet ten porcupines, than tackle the homework my teacher assigns.		
Homework! Oh, homework! You're last on my list, I simply can't see why you even exist, if you just disappeared it would tickle me pink. Homework! Oh, homework! I hate you! You stink!		
Jack Prelutsky		
9. Three animals are mentioned in the poem. Write their names in the spaces below.		
10. Which of these words best describes the poem? Tick ✓ the best answer.		
serious		
humorous		
depressing		
exciting CO STRAIGHT TO PAGE 5		(3)

Tick to four word	he correct box:	in the table belo	ink carefully before to show which an adjective or an	of 41.	
the senter	nce.		•	DOLLA III	
	verb	noun	adjective	adverb	
teacher			·		
reminds					
carefully					
difficult	•				
Write the p Be careful wassign	ast tense of the with your spelli assigne	ing. The first h	rds in the spaces b as been done for	pelow. you.	
Be careful	ast tense of the with your spelli	ing. The first h	rds in the spaces beas been done for	oelow. you.	

14.	The last line of the second verse of the poem uses the word assigns. Look at the four statements below. Tick the box opposite the correct statement. Only one of the statements is correct.	Do r	ot write s colum
	When my teacher assigns a homework, it means that:	1,1%	7.00.0
	she writes her name at the end of the homework		
	she keeps a record of each pupil's homework mark		
	she asks each pupil to mark their partner's homework		
	she tells the pupils what they must do for homework		
15.	Find the word in the poem closest in meaning to each of the following. Write your answer in the space below.		
	having a nasty smell		
	blow up		
	vanished from sight		
		:	

(3)



What is the temperature in Glasgow? Write your answer in the space below.

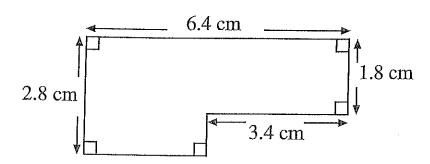


(b) The temperature in Edinburgh is - 4°C. The temperature in Dresden is 7°C lower.

What is the temperature in Dresden? Write your answer in the space below.

00
 •

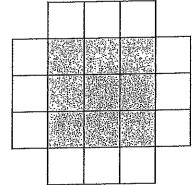
17. Look at the shape below.



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

C	m
	Ш

Look at the sequence of three patterns below. Each pattern is made up 18. of shaded and unshaded squares. For example, pattern 2 has 4 shaded squares and 8 unshaded squares. Pattern 3 Pattern 2 Pattern 1



Look at the table below for the number of unshaded squares in each pattern.

Pattern	1	2 .	3
Unshaded squares	4	8	12

How many unshaded squares are there in pattern 7? Write your answer in the space below.

____ unshaded squares

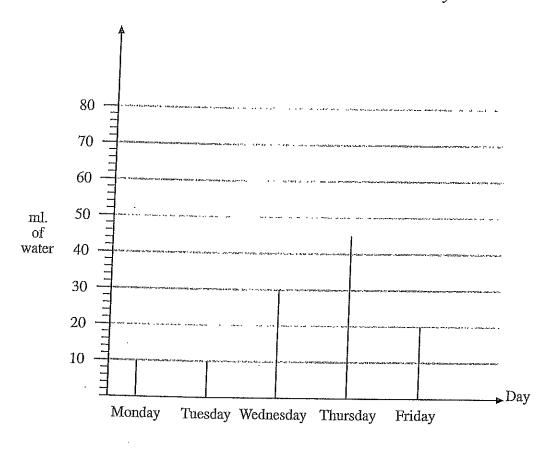
Look at the table below for the number of shaded squares in each 19. pattern.

Pattern	1	2	3
Shaded squares	1	4	9

How many shaded squares are	there	in	pattern	8?	Write your answer i	n the
space below.						

_____ shaded squares

20. Nora's pet hamster is ill. The vet tells Nora to give the hamster water each day. Nora must keep a record of the amount of water the hamster drinks each day. Nora draws the graph below. The graph shows how many millilitres of water the hamster drinks over 5 days.



(a) The hamster had more water to drink on Friday than on Monday. How much more? Write your answer in the space below.

_____ ml

(b) On what day did the hamster drink the greatest amount of water? Write your answer in the space below.

21. Over two consecutive days there is a 50% increase in the amount of water the hamster drinks. Write the two days in the spaces below.

_____ and ____

22.	Write a number in the box below that makes the statement true.		Do r in thi	ot write s colum
	15 is % of 60			
23.	An ice skater spins on the ice. She turns $3\frac{1}{2}$ times before stopping. How many degrees has she turned? Write your answer in the space below.			
	0			
	n e e e e e e e e e e e e e e e e e e e	. •		
	;			

The passage you are about to read contains five errors. Read the passage and then answer the questions that follow it. A missed bin collection Dear Sir, I am a schoolboy and this is the first letter I've ever written. (line 1) I am writing to ask you to collect our bin on the day you say (line 2) you will, Last week our bin wasn't collected. This made (line 3) my mum furious and she is more strict on days when shes (line 4) furious. (line 5) A foul smell is coming from our bin. My mum tells me that (line 6) bins can be a health hasard and that I shouldn't play near (line 7) smelly bins. She says that if bins are pushed over they (line 8) can attract rats. Can you see my problem. I want to play (line 9) in our alley, but I don't want to disobey my mum. (line 10) I'm writing this letter because my mum's to polite to complain. (line 11) But my uncle Peter says, "You don't get if you don't ask" and (line 12) so I'm asking you to send someone to collect our bin. If you (line 13) do as I ask, I promise I'll never write to you again. (line 14) Yours faithfully, Gerard Hiddick 24. Each line of the passage is numbered. A question mark is needed instead of a full stop on one line of the passage. Tick the number of the line in which the question mark is needed. line 6 line 8 line 9 line 13 (1)

25.	stop rather t	of the passage a comma has been used incorrectly. A full than a comma should have been used. Tick the number of which this error was made.	Do not write in this column
	line 3		7
	line 10		
	line 12		
	line 14		
		J	
26.		upostrophe missing from one of the words in the passage.	
	line 2		
	line 4		
	line 8		
	line 12		
27.		een used incorrectly in the passage. Tick the number of ining the incorrect word.	
	line 6		
	line 10		
	line 11		
28.		lling error in one of the lines of the passage. Tick the line containing the spelling error.	
	line 5		1
	line 7		
	line 9		
	line 12		
	•	GO STRAIGHT TO PAGE 13	(4)

	rage 15		
29.	Look at the right-angled triangle below.	Do no	ot writ
	Tick \square the statements below that are true: angle a and angle b add to make 180°	n tais	Colum
	angle a and angle b are both acute angles		
30.	Look at the triangular prism below. Write the correct number in each of the spaces below.		
	The triangular prism has faces. The triangular prism has vertices.		
31.	Look at the numbers below. Tick ✓ the number in which 3 stands for 3 units. 400.03 ☐ 403.2 ☐		
	502.3		

(3)

231.2

32.	Work out the cost of 20 cm of ribbon at £3.80 per metre. Write your answer in the space below.	Do not write in this column
	pence	
33.	A custard cream weighs 24 grams. Only 33½% of its weight is cream. How many grams of cream are in 50 custard creams? Write your answer in the space below.	
	g	
34.	Fergus has to fill bags with sand from a container. The container holds $3\frac{1}{3}$ kg of sand. Each bag holds $\frac{1}{4}$ kg of sand. How many full bags of sand can Fergus get from the container? Write your answer in the space below.	
	bags	
35.	Four types of bottle are used to store wine.	
· Z	Bottle A holds 1.58 litres. Bottle B holds 1.7 litres. Bottle C holds 742 ml. Bottle D holds 1628 ml.	
wine the s	nge the bottles in order from the bottle that holds the smallest amount of to the bottle that holds the greatest amount. Write a letter in each of paces below to show the correct order of the bottles. The bottle holding smallest amount of wine has been done for you.	
	· ·	·
	(smallest) (greatest)	
36.	A family goes on a long journey. Their car uses 9.7 litres of petrol each hour. If the family travels for 8 hours, how many litres of petrol does the car use? Write your answer in the space below.	
	litres	
L	GO STRAIGHT TO PAGE 15	(5)

The Gingerbread Man

The gingerbread man gave a gingery shout: "Quick! Open the oven and let me out!" He stood up straight in his baking pan. He jumped to the floor and away he ran. "Catch me," he called, "if you can, can, can."

The gingerbread man met a cock and a pig And a dog that was brown and twice as big As himself. But he called to them all as he ran, "You can't catch a runaway gingerbread man."

The gingerbread man met a reaper and sower. The gingerbread man met a thresher and mower; But no matter how fast they scampered and ran They couldn't catch up with a gingerbread man.

Then he came to a fox and he turned to face him. He dared Old Reynard to follow and chase him; But when he stepped under the fox's nose Something happened. What do you s'pose? The fox gave a snap. The fox gave a yawn, And the gingerbread man was gone, gone, GONE.

Rowena Bennett

37. Find the word that goes at the end of the eight words below to make a true sentence of nine words.

The gingerbread man spends much of the poem

Tick ✓ the b	est answer.
singing	
cooking	
eating	
running	

38.	What is a gingerbread man? Tick I the best answer.	Do not write in this column
	a person a biscuit an animal a reaper	
39.	These five words are not in alphabetical order:	
	dotty discovery discrete discontinue catalogue	
	Write the words in alphabetical order in the space below. The first word has been done for you.	
	catalogue	
40.	In the final verse the word s'pose is used. Write the word without the apostrophe and using all its letters. Write your answer in the space below.	
·\$.		
41.	Find the word in the third verse of the poem that means dashed about playfully.	
	Write your answer in the space below.	
42.	Which line of the final verse of the poem tells us that the gingerbread man challenged the fox to pursue him? Write the line in the space below.	
	GO STRAIGHT TO PAGE 17	(6)

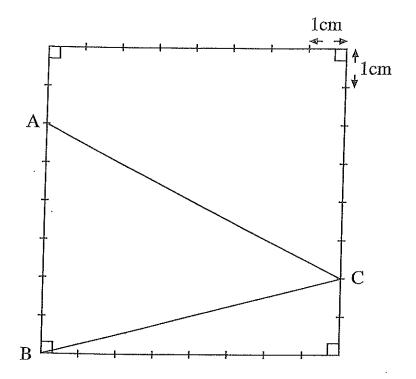
43.	According to the poem, one of these four statements is true Tick \square the true statement.).	o Do	not wr	ite mn
	the dog in verse two was twice as big as the pig		-		
	the dog in verse two was twice as big as the cock				
	the dog was twice as big as the gingerbread man				
	the dog was twice as big as itself				
•					
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				THE STATE OF THE S	
				1	

(1)

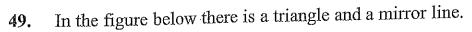
44.	Look at the four statements below. Tick each statement true or false.						Do not write in this column	
						True	False	2.4 1.5 1.8 1.4 4.4 6.4 6.4 6.4 6.4 6.4 6.4 6.4 6.4 6
	all four	aidea of a sai	are have the	same length	, 1			
					<u>.</u>			
			triangle add u	•			. [
	all the ar	ngles of an is	osceles trian	gle are the sa	ame			
	opposite	sides of a pa	ırallelogram a	are equal in	length			
45.	Look at	the five fract	ions below			and American State of the State		
	5 _{/12}	1/36	² / ₁₈	4/9	5/6	- 1		
	Which fr	action will b	actions in ord e the middle answer in the	fraction wh	ien Clai		them	
	•							
and the second of the second	Side of the second seco	Constitution of the Consti				<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	the state of the s	
46.			ked a, b, c, d	, e and f dra	wn in tl	ne		
	figure be Line c is		ine e , and lin	e a is parall	el to lin	e f.		
্ৰ	,	1	•	/ /	·c			
	•		_	/ /				
	a				~ d			
			e,	/ /				
		b	. /			f		
				/				
	Tick	ach of the sta	atements belo	ow true or fa	lse.			
				Th	rue	False		
	line a is	perpendicul	ar to line b					
	~	parallel to li						
	_	perpendicul:						
	line b is]	perpendicul	ar to line f					
}		G	O STRAIGHT	TO PAGE 1	9			(3)

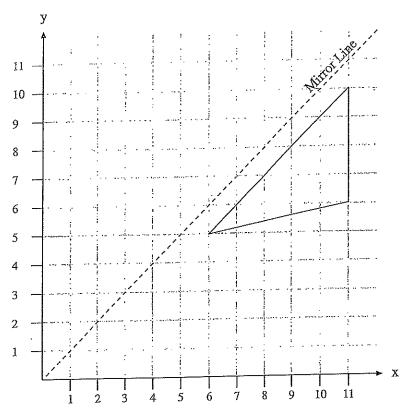
47.	Michael and Susan agreed to share the cost of a video game. The game
	cost £27.60. Michael paid 25% of the cost. How much did Susan
	pay? Write your answer in the space below.

48. Look at the square below. Each of its sides is 8 cm long. A triangle ABC is drawn in the square.



What is the area of the triangle ABC? Write your answer in the space below.





The triangle is reflected in the mirror line and a **new triangle** is formed. What are the **coordinates** of the **three vertices** of the **new triangle**? Write your answers in any order in the spaces below.

(9)	(,)	(,)

50. A map has the following scale:

٠¥.

1 centimetre represents 5 kilometres.

Two towns are 5.8 centimetres apart on the map. What is the actual distance between the towns? Write your answer in the space below.

km

51. Two churches are 27.5 kilometres apart.

How far apart are the churches on the map?

Write your answer in the space below.

	cm
--	----

(3)

Windlord

Ally had always hated sports in school. She used every excuse to miss the class, and she liked to pretend that she didn't need exercise. She was one of those people who seemed to be naturally healthy: her hair always looked shining, her skin was clear and she never seemed to put on any weight, no matter how much or how badly she ate. She always had this idea at the back of her mind that she was fit. She was discovering now that she wasn't.

There was a stitch in her side that stabbed like a red-hot dagger with every breath she took, her throat was raw and her eyes and nose were both running. She was afraid she was going to be sick. She knew the Chopts were close; she didn't know how close because she was afraid to look over her shoulder, but she could hear their panting grunts growing louder, and actually smell their musty, vaguely unpleasant odour. She knew she had to reach the river ... but even if she reached the river would she have the strength left to swim across it?

The rocky ground sloped downwards towards the river, the rough stones and grit gradually giving away to soft, shifting sand. Ally stumbled when she ran onto the beach, the sands seeming to clutch at her feet. She staggered on for a dozen more steps before she actually fell, the tips of her fingers splashing into the river's icy water. Behind her the beasts howled in triumph.

Michael Scott

52.	Two of Ally's senses tell her that the Chopts are getting closer. Tick the two senses.						
	seeing						
	hearing						
	smelling						
	tasting						
	touching						
53.	What word in the final paragraph tells us that when Ally fell, the Chopts were confident that she wouldn't escape? Write the word in the space below.						
GO STRAIGHT TO PAGE 22							

54.	According to the passage, only one of the statements below is correct. Tick \square the correct statement.	Do not w in this col
	Even if Ally could outrun the Chopts, she might still be in danger because	
	she might not have enough energy left to swim across the river	
	she might cut the soles of her feet on the rough stones and grit	
	she might be unable to survive in the river's icy cold water	
	she might be unable to keep her balance in the soft, shifting sand	
55.	The passage mentions creatures called Chopts. Using only the information in the passage, tick the statement that best describes the Chopts.	
	Chopts are members of the wolf family	
	Chopts can't move quickly on sand	
	Chopts can't swim	
	Chopts are nasty creatures	
5.	Find the three or four word phrase in the final paragraph which is closest in meaning to being replaced by . Write the phrase in the space below.	
•	What two verbs tell us that before she fell, Ally wasn't running smoothly on the beach? Write your answers in the spaces below.	
i e	What phrase used in the first paragraph of the passage means to be conscious of or to believe? You may use between six and eleven words in your phrase. Write your answer in the space below.	
	LOOK OVER YOUR PAPER UNTIL TIME IS UP.	(6)

MAKE SURE YOU HAVE NOT MISSED A PAGE.

Windlord

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	Tick \square the two s	senses.	
	seeing		
	hearing		
	smelling		`
	tasting		
	touching		

What word in the final paragraph tells us that when Ally fell, the Chopts' were confident that she wouldn't escape? Write the word in the space below.

 $\overline{(2)}$