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

OBA

Common Entrance Assessment

Paper 1

Saturday 14 November 2009

Time: 1 Hour

Please fill in the following from your admission card:

Your Candidate Number	ANSWERS
Tour Calibrate Multiper	/

Your Assessment Centre

Your Date of Birth

Answer all 58 questions in this booklet

Association for Quality Education Limited

	įΝB	YTHEF	PEDE VEIL ATICS	
Page	Marks	Score	Check	
1	(4)			
2	(3)	¢	\	
3	(1)	,		
7	(2)			
8	(2)			
9	(2)			
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ТОТА	L 32			

	NOT TO BE FILLED IN BY THE PUPIL ENGLISH					
Page	Marks	Score	Che	ck		
4	(3)					
5	(5)					
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12	(4)					
15	(1)					
16	(6)	? .				
17	(1)					
21	(2)		_			
22	(6)					
TOTA	TOTAL 32					
	IJAIL DRE					

The 10 numbers below show the number of electronic gadgets in the 1. homes of 10 primary school pupils.

5 2

2

(i)

(i)

What is the **mean** (average) number of gadgets?

Write your answer in the space below.

___ gadgets

Look again at the 10 numbers. 2.

What is the range?

Write your answer in the space below.

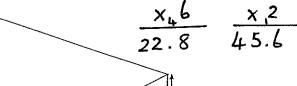
8-2 = 6

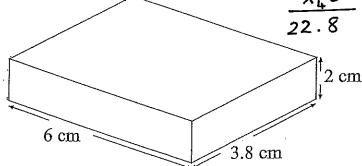
__ gadgets.

The cuboid below is 6 cm by 3.8 cm by 2 cm. 3.

3.8

22.8





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

45.6 cm³

4.(a) What is 7:52 am as a 24 hour clock time? Write your answer in the space below.

07:52

(b) What is 7:52 pm as a 24 hour clock time? Write your answer in the space below.

19:52

(i)

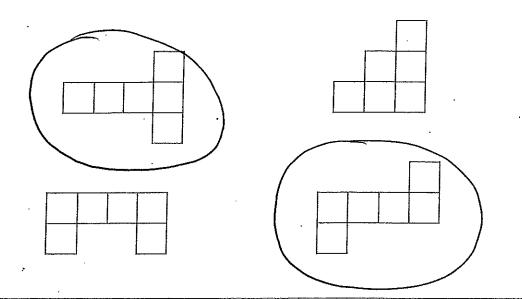
(4)

(i)

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

Percentage	33 ¹ / ₃ %	50%	75%	25%	20%
Fraction	1 3	1/2	3-4	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.

 $\overline{(3)}$

%. Look at the function machine below.

5 +3 x4 32

Number out

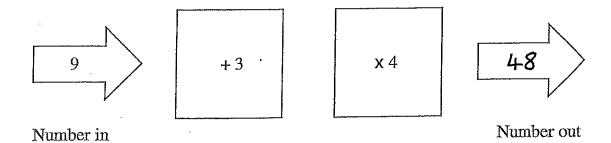
(1)

(1)

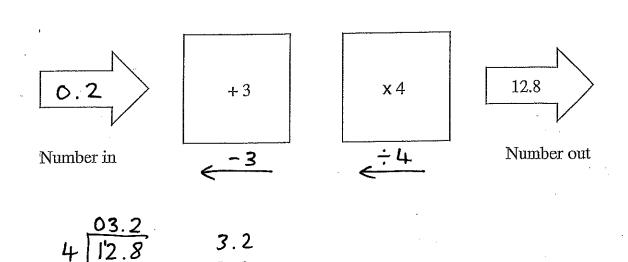
Complete the two function machines below by writing the correct number in the blank arrow.

(a)

Number in



(b)



Homework! Oh, Homework!	Do not in this co	write olumn
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.	9.	
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 3 correct = 2 mar 2 correct = 1 mark		
9. Three animals are mentioned in the poem. Write their names in the spaces below.	2)	
shark lion porcupines 10. Which of these words best describes the poem? Tick ✓ the best answer.		
serious humorous		
depressing exciting	(1)	
GO STRAIGHT TO PAGE 5	(3))

L		ir words teacher, ence below.	reminds, car	efully and difficu	It are used in	Do not writ in this colum
		<u>cher</u> always <u>rem</u> t homework que		nk <u>carefully</u> befo	re answering	
		rds is used as a vo		ow to show which n adjective or an		વર્
	•	verb	noun	adjective	adverb	
te	acher		~	·		
re	minds	/				
ļ	refully					(2)
di	fficult	·	****			
12.		—	_	ords in the spaces		ark
	assign wash	assigned		has been done for	you.	
	explode	expl	ode d	* AU	correct = 2 n + = 1 mark	naul (2)
	give stink	_ gas _ sta	nk_	3/4	+ = /man	
5 .		V				
13.			~	the phrase of for ords: I would be		
	Write the p	hrase in the spac	e below.			
-	<u>iŁ</u>	would tie	kle me p	ink		(1)
•		•	,			
		GO STR	AIGHT TO PA	GE 6		(5)

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 not write in this column
	When my teacher assigns a homework, it means that:	
	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	(1)
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 explode	(2)
	vanished from sight disappeared * All correct = 2	
	* All correct = 2 2/3 = 1	

16. (a) The temperature in Belfast is 3°C.

The temperature in Glasgow is 8°C lower than in Belfast.

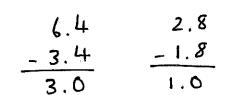
What is the temperature in Glasgow? Write your answer in the space below.

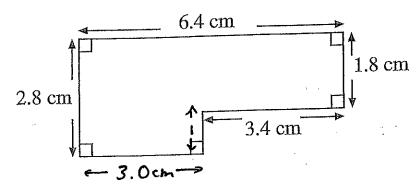
(b) The temperature in Edinburgh is - 4°C.

The temperature in Dresden is 7°C lower.

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

17. Look at the shape below.





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

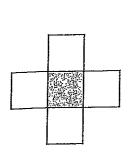
18. Look at the sequence of three patterns below. Each pattern is made up of shaded and unshaded squares. For example, pattern 2 has 4 shaded squares and 8 unshaded squares.

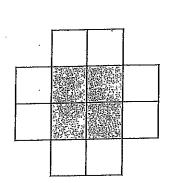


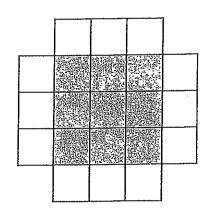
Pattern 1

Pattern 2

Pattern 3







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

Pattern	1) *4	2 \ x4	3 \x4	7
Unshaded squares	4 4	8 2	12 2.	28

)×4

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

28 unshaded squares

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

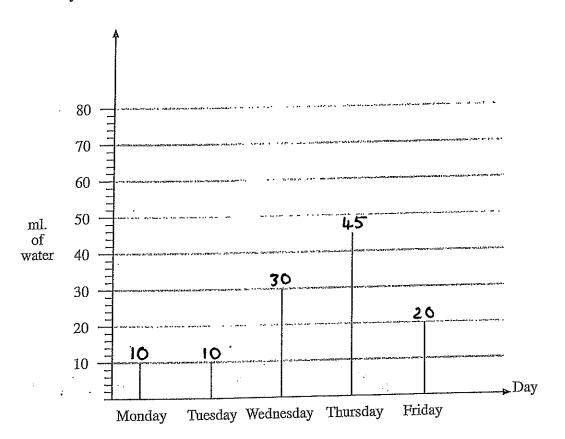
Pattern	1	2	3
Shaded squares	1	4	9
	12 = 1	27 = 4	32 = 9

How many shaded squares are there in pattern 8? Write your answer in the space below. $8^2 = 64$

64 shaded squares

(2)

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.

<u>10</u> ml 20-10 = 10

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

_Thursday

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.

Wed and Thurs 30+15 = 45

Write a number in the box below that makes the statement true. 22.

	1	15			a = e/
15 is 25	% of 60	60	= +	=	25 %

An ice skater spins on the ice. She turns $3\frac{1}{2}$ times before stopping. 23. How many degrees has she turned? Write your answer in the space below.

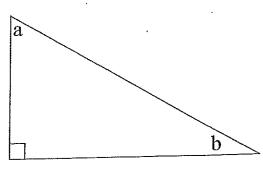
1260	0	360
		× 3
		1080
		+ 180
		1260

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. (line 1) I am a schoolboy and this is the first letter I've ever written. (line 2) I am writing to ask you to collect our bin on the day you say (line 3) you will, Last week our bin wasn't collected. This made (line 4) my mum furious and she is more strict on days when shes (line 5) furious. (line 6) A foul smell is coming from our bin. My mum tells me that (line 7) bins can be a health hasard and that I shouldn't play near (line 8) smelly bins. She says that if bins are pushed over they can attract rats. Can you see my problem. I want to play (line 9) (line 10) in our alley, but I don't want to disobey my mum. 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) (line 14) do as I ask, I promise I'll never write to you again. Yours faithfully, Gerard Hiddick Each line of the passage is numbered. A question mark is needed 24. 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 (1) line 13

GO STRAIGHT TO PAGE 12

25	In one line of the passage a <u>comma has been used incorrectly</u> . A full stop rather than a comma should have been used. Tick the number of the line in which this error was made.	. 8 <u>.</u> 8.	Do not this co	writ Jum
	line 3			
	line 10			
	line 12			
	line 14	()	
26.	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 2			
	line 4			
	line 8			
	line 12	(1))	
27.	A word has been used incorrectly in the passage. Tick the number of the line containing the incorrect word.			
	line 1			
	line 6			
	line 10	(1)		
	line 11		<u> </u>	
28.	There is a spelling error in one of the lines of the passage. Tick the number of the line containing the spelling error.			
	line 5			
	line 7			
	line 9			
	line 12	(1)		
	GO STRAIGHT TO PAGE 13	(4)	

29. Look at the right-angled triangle below.

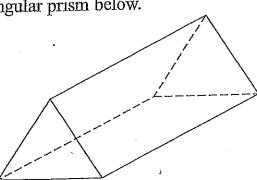


Tick the statements below that are true:

angle **a** and angle **b** add to make 180° angle **a** and angle **b** are both acute angles angle **a** and angle **b** add to make 90°



30. Look at the triangular prism below.



Euler's Theorem F+V=E+2 5+6=9+2

Write the correct number in each of the spaces below.

The triangular prism has ______ faces.

The triangular prism has _____6___ vertices.

31. Look at the numbers below.

Tick ✓ the number in which 3 stands for 3 units.

400.03 403.2 502.3 231.2 (1) (1)(1)

32.	76 pence	o 76 5 3'8'0	(Do not write in this column
33.	A custard cream weighs 24 grams. Only 33½ % of How many grams of cream are in 50 custard cream Write your answer in the space below.	its weight is cream. us? 4 = 89 8 x50 400	(1)
34.	Fergus has to fill bags with sand from a container. The sand sand sand. Each bag holds $\frac{1}{4}$ kg of sand. However, sand can Fergus get from the container? Write your below. $\frac{12}{4} = 3 \text{ kg}$ $\frac{13}{4} = 3.25 \text{ kg}$	many tun dags of	(1)
35.	Four types of bottle are used to store wine. Bottle A holds 1.58 litres. Bottle B holds 1.7 litres. Bottle C holds 742 ml. Bottle D holds 1628 ml.		
wine	inge the bottles in order from the bottle that holds the eto the bottle that holds the greatest amount. Write a spaces below to show the correct order of the bottles. It smallest amount of wine has been done for you.	letter in cach or	
	C A D +-	(greatest)	(1)
36.	A family goes on a long journey. Their car uses 9.7 hour. If the family travels for 8 hours, how many 1 the car use? Write your answer in the space below. 77.6 litres	litres of petrol each itres of petrol does 9.7 X 8 77.6	(1)

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 best answer.		
singing		
cooking		
eating		
running		

<u>(ı)</u>

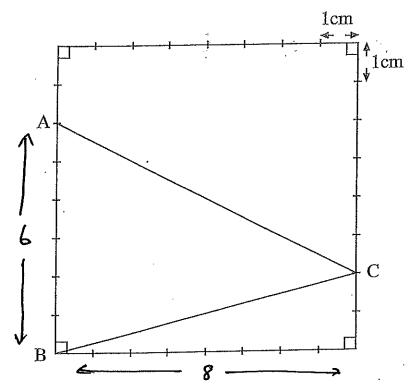
38.	What is a gingerbread man? Tick the best answer.	Do not write in this column
	a person a biscuit an animal a reaper	(1)
39.	These five words are not in alphabetical order:	
	dotty discovery discrete discontinue catalogue	
	Write the words in alphabetical order in the space below. The first word has been done for you.	
	catalogue <u>discontinue</u> discovery discrete dotty	(2)
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.	(1)
41.	Find the word in the third verse of the poem that means dashed about playfully.	
	Write your answer in the space below.	
	5 (ampered	(1)
12.	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.	
	He dared Old Reynard to follow and chase him. (accept 'line 2')	(1)
	(accept 'line 2')	
	GO STRAIGHT TO PAGE 17	(6)

	Page 17			
43.	According to the poem, one of these four statements in Tick I the true statement.	s true.		Do not write in this column
	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		41	
· v				

44.	Look at the four statements below. Tick each statement true or false.		
	True False	5-1-57 (\$C \$2 \$\frac{1}{2} \text{P\$\frac{1}{2}} (\$\frac{1}{2} \text{P\$\frac{1}{2}} \text{P}\frac{1}{2} (\$\frac{1}{2} \text{P}\frac{1} (\$\frac{1}{2} \text{P}	
	all four sides of a square have the same length the three angles of a triangle add up to 360° all the angles of an isosceles triangle are the same opposite sides of a parallelogram are equal in length	(1)	
45.	Look at the five fractions below $ \begin{array}{ccccccccccccccccccccccccccccccccccc$	<u>(1)</u>	
46.	Look at the lines marked a, b, c, d, e and f drawn in the figure below. Line c is parallel to line e, and line a is parallel to line f.		
	Tick each of the statements below true or false. True False line a is perpendicular to line b line d is perpendicular to line e line b is perpendicular to line f	(1)	
GO STRAIGHT TO PAGE 19			

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.

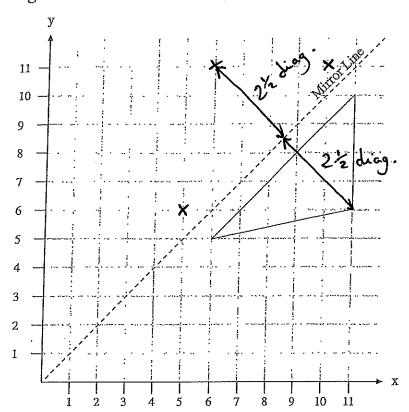
$$A = \frac{b \times h}{2}$$

$$A = \frac{6 \times 8}{2}$$

$$A = \frac{48}{2}$$

$$A = 24 \text{cm}^2$$

In the figure below there is a triangle and a mirror line. 49.



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.

- (5, 6) (6, 11) (10, 11)

50. A map has the following scale:

1 centimetre represents 5 kilometres.

(I)

(i)

(1)

(3)

Do not writ

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.

5.5 cm

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		

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.

triumph

smelling

touching

tasting

(1)

54.	According to the passage, only one of the statements below is correct. Tick \square the correct statement.	Do not write in this column
	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	(1)
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	(1)
56.	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.	
	gradually giving away to	(1)
57.	What two verbs tell us that before she fell, Ally wasn't running smoothly on the beach? Write your answers in the spaces below.	
	stumbled staggered	(2)
58.	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.	
	She always had this idea at the back of her mind. (1)	(1)
	of her mind. (1)	
	מוז או אוויי דוייימוז פויישע אין פוייע אין אין אין	(6)

MAKE SURE YOU HAVE NOT MISSED A PAGE.