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



Common Entrance Assessment

Paper 2

Saturday 28 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

MATHEMATIC

1	VIAII	i B IVLA	ATIC:	3
Page	Marks	Score	Che	ck
1	(2)			
2	(2)			
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4	(2)			
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20	(2)			
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TOTA	L 32			

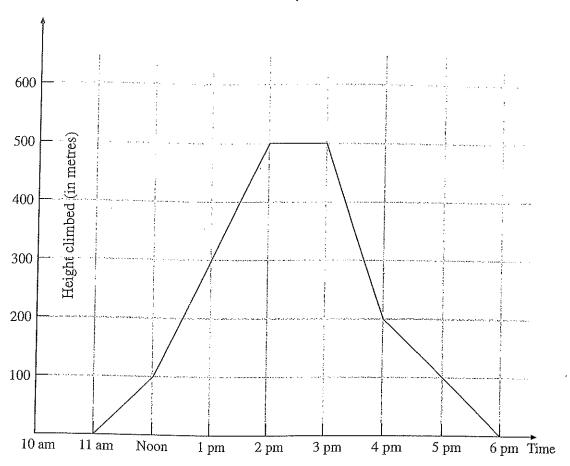
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ENGLISH

	برنسو	(CLL	J * *
Page	Marks	Score	Check
6	(6)		
7	(2)		
11	(1)		
12	(4)		
17	(6)		
18	(4)		
22	(3)		
23	(5)		
24	(1)		
TOTA	AL 32		
	TAL		

1. A small animal climbs up to the top of a hill and then makes his way back to ground level. The graph below shows the animal's height above ground level at certain times of the day.





(a) How high has the animal climbed at 1 pm? Write your answer in the space below.

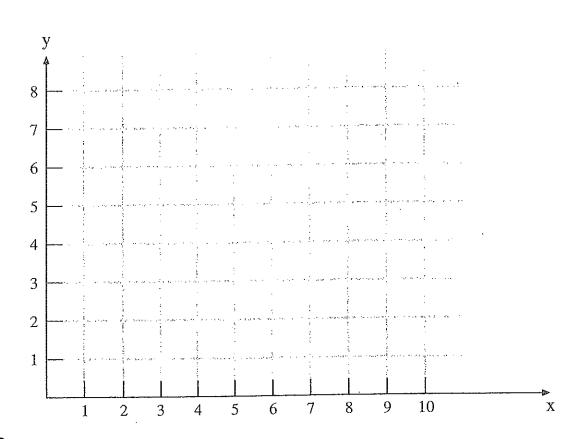
_____ metres

(b) At what time did the animal arrive back at ground level? Write your answer in the space below.

_____ pm

2. Jennifer is facing North. She turns through 45°. In which direction is she now facing? There are two possible correct answers. Write your answers in the spaces below.

3. Look at the grid below.



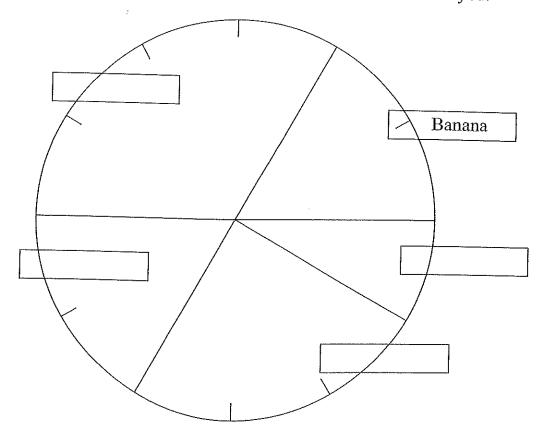
- (a) Plot the points (1, 4), (8, 4) and (8, 1) on the grid.
- (b) When a fourth point is added to the grid, the four points can be joined to form a rectangle. Write the coordinates of the fourth point in the space below.
- 4. What time is 5 hours and 22 minutes earlier than noon? Write your answer using the 12 hour clock (am/pm), in the space below.

(2)

5. A teacher is carrying out a survey about healthy eating in school. She asks 60 pupils to choose the fruit they like best. Their choices are shown in the table below.

	I				
	banana	apple	orange	pear	mango
Number who liked	10	15	20	10	5

The teacher then uses the table to draw the pie chart below. Write the name of each fruit in the correct box. One is done for you.



6. A school pays for:

25 pens at 40 pence each 130 rulers at 60 pence each and 4 notebooks at 50 pence each.

Find the **total amount** the school will have to pay. Write your answer in the space below.

£	
---	--

7.	Complete the following calculations. Write your answers in the spaces below.	: Po not write: in this column
	24 ÷ 10 =	
	257 ÷ 100 =	
	42.7 ÷ 10 =	
8.	Look at the number below.	
	5.74	
	What is the value of the 7 digit in this number? Tick \square the correct box below.	
	seven hundreds	
	seven tens	THE PROPERTY OF THE PROPERTY O
	seven units	
	seven tenths	
	seven hundredths	77.15.15.15.1
	seven thousandths	
	\cdot .	
ang and a manager		(2)
	GO STRAIGHT TO PAGE 5	(4)

My Brother Bert

Pets are the hobby of my brother Bert. He used to go to school with a mouse in his shirt.

His hobby it grew, as some hobbies will, And grew and GREW and GREW until -

Oh don't breathe a word, pretend you haven't heard. A simply appalling thing has occurred -

The very thought makes me iller and iller: Bert's brought home a gigantic gorilla!

If you think that's really not such a scare, What if it quarrels with his grizzly bear?

You still think you could keep your head? What if the lion from under the bed

And the four ostriches that deposit Their football eggs in his bedroom closet

And the aardvark out of his bottom drawer All danced out and joined in the roar?

What if the pangolins were to caper Out of their nests behind the wallpaper?

With the fifty sorts of bats
That hang on his hatstand like old hats,

And out of a shoebox the excitable platypus Along with the ocelot or jungle-cattypus?

The wombat, the dingo, the gecko, the grampus - How they would shake the house with their rumpus!

Not to forget the bandicoot Who would certainly peer from his battered old boot.

Why it could be a dreadful day, And what, oh what, would the neighbours say!

Ted Hughes



. ;		
Based on your i best describes B	reading of the poem, which of the statements below Bert's platypus? Tick \square the best answer.	
very obedient		
long-tailed		
slow moving		
easily agitated		-
· , · · · O ·············		
The poet is afrai animals. Write	id that two of Bert's animals will fight. Name the two your answers in the spaces below.	
· .	and	
that Bert's hobby	a secret. In which verse of the poem does the poet ask y be kept a secret? Tick the correct box below.	
verse 1		
		1
verse 2		
verse 2 verse 3 verse 4 Ladies is the pl Write the singul	ural form of the singular noun lady. lar form of each of the following plural nouns. Take spelling. Write your answer in the space provided.	
verse 2 verse 3 verse 4 Ladies is the pl Write the singul	lar form of each of the following plural nouns. Take	
verse 2 verse 3 verse 4 Ladies is the pl Write the singular care with your s	lar form of each of the following plural nouns. Take	
verse 2 verse 3 verse 4 Ladies is the pl Write the singul care with your s	lar form of each of the following plural nouns. Take	

	GO STRAIGHT TO PAGE 8	(2))
			7.
		7770	-
		7,000	
			7 00 4 1 1
	lion grizzly bear		
	aardvark	7	
	gorilla		
15.	When Bert adds one particular animal to his collection, his brother feels sick. Which animal? Give your answer by ticking the correct box below.		
	a rumpus is an animal's hindquarters		
	a rumpus is a disruptive commotion		
	a rumpus is an animal's grunting noise		7444
14.	In verse 12 of the poem the word rumpus is used. What is the meaning of rumpus? Tick \square the best answer.	Dis Tirdi	not write is column

16.	In a dancing competition Sean has to dance 20 times. Each dance is
	scored out of 10 marks. In the box below are the marks awarded to
	Sean by one of the judges.

5	2	8	9	3
4	4	5	6	1
2	5	8	6	8
1	7	7	5	8

The **frequency table** below is to be used to show the marks awarded by the judge. Complete the table by writing the correct number in each of the boxes below.

Sean's score	Frequency
1 - 3	
4 - 6	
7 - 9	

17. The statements below are about three dimensional solid objects.

Tick ✓ each of the statements below true or false. The first one is done for you.

	True	False
A cube has 6 faces		
A cylinder has 2 flat faces and 1 curved face	-	,
A cube has 6 vertices		
A triangular prism has 9 edges	The state of the s	

Write your answer in the space below.	18.	A train travels 2 kilometres. A second train travels 48 metres further. How far does the second train travel? Circle the correct answer below.					
Multiply the larger of the two numbers by 100. Write your answer in the space below. 20. Write the number sixty and one quarter as a decimal number. Write your answer in the space below. 21. Complete each number statement below by writing the correct number in the box. (a) \(\frac{2}{7} \) of 56 is \(\frac{1}{1000} \) (b) \(8 \) is \(\frac{2}{5} \) of \(\frac{1}{1000} \)		248m	50m	2.48km	50km	2048m	
Multiply the larger of the two numbers by 100. Write your answer in the space below. 20. Write the number sixty and one quarter as a decimal number. Write your answer in the space below. 21. Complete each number statement below by writing the correct number in the box. (a) \(\frac{2}{7} \text{ of 56 is} \) (b) \(8 \text{ is } \frac{2}{5} \text{ of} \)	19.	Look at th	e two numbers	s below.			1,772
Write your answer in the space below. 20. Write the number sixty and one quarter as a decimal number. Write your answer in the space below. 21. Complete each number statement below by writing the correct number in the box. (a) \(\frac{2}{7} \text{ of 56 is} \) (b) \(8 \text{ is } \frac{2}{5} \text{ of} \)		0.8	0.74	•			
20. Write the number sixty and one quarter as a decimal number. Write your answer in the space below. Complete each number statement below by writing the correct number in the box. (a) \(\frac{2}{7} \) of 56 is (b) \(8 \) is \(\frac{2}{5} \) of		Multiply tl	he larger of th	e two numbers b	oy 100.		
Write your answer in the space below. Complete each number statement below by writing the correct number in the box. (a) \(\frac{2}{7}\) of 56 is \(\frac{1}{2}\) (b) \(8\) is \(\frac{2}{5}\) of \(\frac{1}{2}\).		Write your	answer in the	space below.			
Write your answer in the space below. 21. Complete each number statement below by writing the correct number in the box. (a)							
Write your answer in the space below. 21. Complete each number statement below by writing the correct number in the box. (a)	<u> </u>	·		The second secon			
Write your answer in the space below. Complete each number statement below by writing the correct number in the box. (a) \(\frac{2}{7} \) of 56 is \(\frac{1}{2} \) of \(\frac{1}{2} \) of \(\frac{1}{2} \) of \(\fra	20.	Write the n	number sixty a	nd one quarter	as a decimal n	umber.	
21. Complete each number statement below by writing the correct number in the box. (a) \frac{2}{7} \text{ of 56 is} \qquad \qqqqq \qqqqqq							
in the box. (a) $\frac{2}{7}$ of 56 is							
in the box. (a) $\frac{2}{7}$ of 56 is							
(b) $8 \text{ is } \frac{2}{5} \text{ of}$	21.	Complete e in the box.	ach number sta	atement below b	y writing the co	orrect number	
(b) $8 \text{ is } \frac{2}{5} \text{ of}$		(a)	$\frac{2}{7}$ of 56 is				
		(b)	•				
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22.	The rectangle	below	is divided:	into sq	uares of ed	iual area.
	0		10 0,1,10,00			loon or our



What percentage of the rectangle is shaded?

Write your answer in the space below.

0/

23. In St. Petersburg the temperature is -17°C. The temperature in Belfast is 22°C higher. What is the temperature in Belfast? Write your answer in the space below.

 $^{\circ}\mathrm{C}$

Page 11

The passage you are about to read contains four errors and a missing word. Read the passage and then answer the questions that follow it. Children have never had it so good A survey of parents found that 84% think that their (line 1) (line 2) children learn as much from computer games as they do from their teacher. They believe theres more fun in (line 3) (line 4) the learning that takes place in modern classrooms. (line 5) Parents are impressed by the "Brain Training" games (line 6) that make the learning of multiplication tables and (line 7) arithmetic so much fun. They can see the enjoyment on the faces of their children when they play these games. (line 8) (line 9) It's clear for all to see. These games weren't around when they were young. In those days, children had to (line 10) more on their teacher. Learning wasn't thought of as (line 11) something that could be fun. No electronic device existed (line 12) to measure "brain age" when these parents where at school. (line 13) (line 14) While computer games can make learning fun, parents regected the idea that computers could ever take (line 15) (line 16) the place of the teacher. How could a computer mark homeworks or keep order in class. Nevertheless, the (line 17) parents thought teachers should make learning more (line 18) (line 19) enjoyable in order to compete with the computer (line 20) games of the future. Each line of the passage is numbered. There is a spelling error in one of 24. the lines of the passage. Tick the number of the line containing the spelling error. line 1 line 12

GO STRAIGHT TO PAGE 12

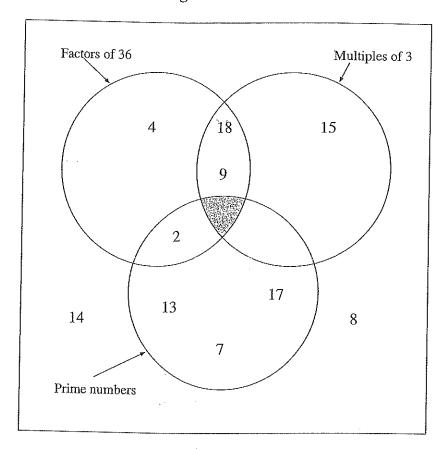
line 15

line 19

(l 1)	-
`		.1

		GO STRAIGHT TO PAGE 13	(4)
	learn		
	need		
	rely		
	depended		
		one of the boxes below to show your choice.	
28.	Look at the four	words below. Choose the best word to fill the gap in	
	line 18		
	line 13		
	line 9		
	line 1		
27.		n used incorrectly in the passage. Tick I the number of he error was made.	
	line 17		
	line 12		
	line 8		
	line 4		
	needed.		
26.		k is needed instead of a full stop in one of the lines of the the number of the line where the question mark is	
	line 17		
	line 15		
	line 5		
	line 3		
	apostrophe.		
25.		strophe missing from one of the words in the passage. The line containing the word with the missing	Do not write in this column

29. Eileen is drawing a Venn diagram. She is putting the whole numbers from 1 to 20 into three sets. Each set is shown as a circle. The factors of 36 are in one circle, the multiples of 3 are in another circle, and the prime numbers are in a third circle. Some of the numbers from 1 to 20 are shown on the Venn diagram below.



Which number should Eileen put in the shaded section of the Venn diagram?
Write your answer in the space below.

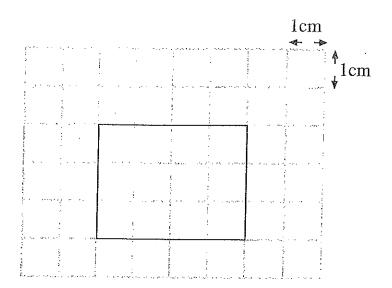
30. Look at the statements below. Tick \(\subseteq \) each statement **true** or **false**. The first is done for you.

	True	False
$\frac{1}{8}$ of a complete turn is an acute angle	\checkmark	
$\frac{3}{8}$ of a complete turn is an obtuse angle		

 $\frac{5}{8}$ of a complete turn is more than 3 right angles

(2)

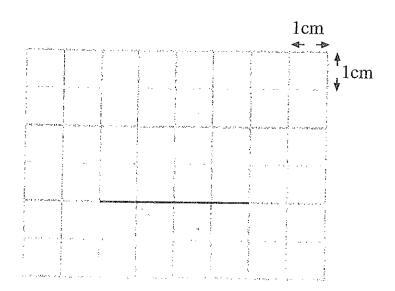
31. Look at the grid below. It is made up of small squares. The side of each small square is 1 cm long. A rectangle is drawn on the grid.



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

cm ²
cm ²

32. Look at the grid below. It is made up of small squares. The side of each small square is 1 cm long. A line of length 4 cm is drawn on the grid. This line is one side of a rectangle of area 10 cm². Draw the other three sides of the rectangle in the grid. Draw your lines clearly and accurately.



		-	
33.	Look at the three ca	lculations below.	
	38 x 14 = 532	$54 \times 12 = 648$	$148 \div 4 = 37$
	Use these to help yo	u complete the calculation	ons below.
	76 x 14 =		
	54 x 24 =		
	19 x 14 =	K	
	148 ÷ 2 =		
Mark Towns of the Parket			
34.		of a and b in the calculation in the spaces provided.	tions below?
	716 - $\mathbf{a} = 125$	a =	
	$108 \div \mathbf{b} = 9$	b =	
35.	Find the missing nur	nber in the calculation be	elow.
	Write your answer in	the box provided.	
	$\div 6 = 7.2$	^	
36.	What is 6.25 kilogra	ms in grams ? Tick ☑ th	e correct answer.
	0.625 g		
	6250 g		

(4)

625 g

0.00625 g

On killing a tree

It takes much time to kill a tree,
Not a simple jab of the knife
Will do it. It has grown
Slowly consuming the earth,
Rising out of it, feeding
Upon its crust, absorbing
Years of sunlight, air, water,
And out of its leprous hide
Sprouting leaves.

So hack and chop
But this alone won't do it.
Not so much pain will do it.
The bleeding bark will heal
And from close to the ground
Will rise curled green twigs,
Miniature boughs
Which if unchecked will expand again
To former size.

No,
The root is to be pulled out Out of the anchoring earth;
'It is to be roped, tied,
And pulled out - snapped out
Or pulled out entirely,
Out from the earth-cave,
And the strength of the tree exposed,
The source, white and wet,
The most sensitive, hidden
For years inside the earth.

Then the matter
Of scorching and choking
In sun and air,
Browning, hardening,
Twisting, withering,

And then it is done.

Gieve Patel

37.	Circle the best word or best pair of words to complete the sentence below.	Do no in this	t write column
	In the poem the author describes how a branch leaf tree twig will change colour become shorter scream die if it is pulled out of the earth roots branch lake.		
38.	In the second verse the poet talks about the tree as if it was a person. For example, the poet describes the tree's bark as bleeding . Find two other words in the second verse where the author talks about the tree as if it was a person. Write your answers in the spaces below.		
39.	Look at the first verse of the poem. For each of the phrases below find the word in the first verse which is closest in meaning to the phrase. Write the word in the space provided.		
	thick skin of an animal		
	the hard outer part of bread		
	disfigured and gnarled		
40.	According to the poem, to kill a tree, what must you do after you've uprooted the tree? Tick the best answer.		
	expose it to the sun and air		
	hack and chop its bark		

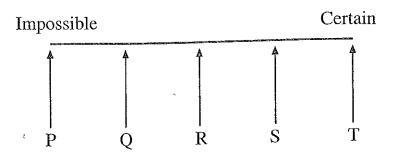
GO STRAIGHT TO PAGE 18

(6)

41. Look the e	at the third vers arth holds the tro	e of the poem.	Which word is	used to show that	Do not wr in this colu
ancho pulled roped tied	oring d	v g	· LAVAR LL UILL		
11CK ⊵	rords kill, leprous the correct box to bor adjective.	, slowly and tre to show whether	e are used in the each word is a	e poem. noun, verb,	
	noun	verb	adverb	adjective	
kill			·		
leprous slowly					
tree					
hm aze	the first verse of of only three wor s food for the tree	r ds to suggest tl	hat the earth in a	which the twee	
	,				
	GO STI	RAIGHT TO PAG	GE 19		(4)

A bag contains 20 balls. There are 10 red balls, 5 black balls an
5 blue balls. It is not possible to see into the bag.

Look at the probability line below. The letters P, Q, R, S and T show equally spaced positions on the probability line.



A pupil puts her hand in the bag and chooses a ball. Each statement below can be completed by **choosing a letter**. Complete each statement using a letter from the probability line. The first has been done for you.

Arrow	P	shows the probability that a pink ball is chosen.
Arrow		shows the probability that a red ball is chosen.
Arrow		shows the probability that a black ball is chosen.
Arrow		shows the probability that a black ball isn't chosen.

45. Look at the list of five numbers below:

6

16

17

48

27

Complete each sentence below by choosing a number from the list.

(a) _____ is a prime number.

(b) is a square number.

(c) _____ is a factor of 24.

 $\overline{(2)}$

46.	Look	at:	the	five	milec	below.
TO.	LUUUK	aı	uic	$\mathbf{H} \mathbf{V} \mathbf{C}$	ruies	below.

Multiply the	previous	number	by:	5,	then	subtract 2
	Multiply the	Multiply the previous	Multiply the previous number	Multiply the previous number by	Multiply the previous number by 5,	Multiply the previous number by 5, then

Rule B Multiply the previous number by 4

Rule C Add 3 to the previous number, then multiply by 2

Rule D Add $\frac{1}{2}$ to the previous number, then multiply by 2

Rule E Add 2 to the previous number

Look at the number sequences below. Match the correct rule to each number sequence. The first has been done for you.

1, 3, 5, 7 ...

Rule E

1, 4, 16, 64 ...

Rule

1, 3, 7, 15 ...

Rule

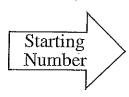
1, 3, 13, 63 ...

Rule

1, 8, 22, 50 ...

Rule

47. Look at the function machine below.



x 2



Answer

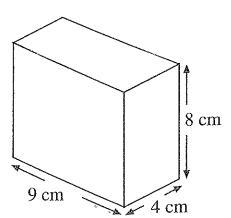
(a) What answer does the function machine give when the starting number is 7?

Write your answer in the space below

(b) What answer does the function machine give when the starting number is 3.5?

Write your answer in the space below

48. Look at the cuboid below. Its dimensions are 8 cm by 9 cm by 4 cm.



What is the total length of all the edges of the cuboid? Write your answer in the space below.

cm

49. The cuboid has six faces. What is the area of the face with the smallest area? Write your answer in the space below.

cm²

50. Ben has three homeworks to do for Monday. He spends 45 minutes on his spelling homework. He spends $1\frac{1}{2}$ hours on his mathematics homework. He spends 55 minutes on his science homework. How much time does he spend altogether on his three homeworks? Write your answer in the space provided.

hours and minutes

51. Siobhan uses her calculator to carry out the calculation:

$$156 \times 2.7 = 421.2$$

Look at the calculations below. Tick \square the boxes next to the **two** calculations that give the answer 421.2.

156 x 0.27

1.56 x 270

156 x 27

15.6 x 0.27

GO STRAIGHT TO PAGE 22

(4)

The Snow Walker

The morning came when snow blew in the air ... only a thin mist of fine snow but enough to tell us that winter had come and it had not brought the deer.

But a few days afterwards the deer came. Ungyala and I went out with light hearts but only a few deer had come to the river. These few were so poor and lacking in fat that we knew they were not the forerunners of the great herds but stragglers that lagged behind, being either too weak or too sick to keep up. We knew then that the deer spirit had led the herds southward by some different path.

The next day there were no deer at the crossing and none to be seen anywhere upon the sweep of the plains, and we had killed barely enough meat to feed ourselves and the dogs for two months.

The real snows came and we began the winter with hearts that were shaken by misgivings. We thought of abandoning our camp and trying to make our way to the coast but we could not do this until enough snow had fallen to make sled travel possible. So we stayed where we were, hoping we would find some of the solitary winter deer that sometimes remain in the land. Ungyala and I roamed with pack dogs over the country for many long miles. A few hares and ptarmigan fell to our guns, but these were no more than food for our hopes.

Farley Mowat

52. Circle the **best word** or **best group of words** to complete the sentences below.

The passage is about two hunters animals awaiting the arrival of a pack of dogs deer summer. They would find it difficult to survive celebrate the winter if they couldn't hunt hares ptarmigan deer. They couldn't travel to the coast because there were too many hares there were too few dogs their sleds couldn't be used yet.

53. Look at the second paragraph of the passage. What phrase of three words tells us that the deer were thin? Write your answer in the space below.

(3)

54.	The phrase fell to our guns is used in the last paragraph of the passage. One of the statements below gives the correct meaning of phrase. Tick the statement giving the correct meaning.	the	Do no In this	Write olumn		
	were killed or wounded by the hunters' guns					
	lay on the ground when they spotted the guns					
	were deceived by the tricks the hunters played					
	were attracted by the light glinting on the guns					
55.	Four animals are named in the passage. One is ptarmigan. Write names of the other three in the spaces below.	e the	A and other construction of the construction o			
56.	The phrase went out with light hearts is used in paragraph two compassage. It means one of the following. Tick ✓ the best answer.	of the				
	the hunters were happy about the arrival of spring					
	the snow was causing the hearts of the hunters to beat faster					
	the hunters felt ill because they couldn't find deer					
	the hunters were optimistic about finding deer					
57.	Why couldn't the hunters abandon camp and travel to the coast? Look at the four answers below and tick the best answer.					
	they didn't have enough food for the journey					
	their sled wasn't strong enough to travel					
	the snow wasn't deep enough to travel		<u> </u>			
	their dogs were needed to search for deer					
	GO STRAIGHT TO PAGE 24	A CONTRACTOR OF THE PARTY OF TH	(5)		

me deer nerds?	Write the sentence i	in the space bel	ow.		
			•		
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	,				
				•	

LOOK OVER YOUR PAPER UNTIL TIME IS UP.

(1)

THIS IS A BLANK PAGE