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

CEA

Common Entrance Assessment

Paper 3

Saturday 5 December 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

NOT TO BE FILLED IN BY THE PUPIL				
MATHEMATICS				
Page	Marks	Score	Check	
1	(3)			
2	(5)			
6	(4)			
7	(3)			
8	(1)			
11	(2)			
12	(3)			
13	(3)			
17	(2)			
18	(2)			
19	(4)			
TOTAL 32				

NOT TO BE FILLED IN BY THE PUPIL				
ENGLISH				
Page	Marks	Score	Check	
3	(1)			
4	(4)			
5	(3)			
9	(2)			
10	(3)			
15	(5)			
16	(4)			
20	(2)			
21	(4)			
22	(4)			
TOTAL 32				
TOTAL SCORE				

1. The Hughes family are on holiday. They start from their hotel and travel by car to visit some local villages. Their journey is shown in the graph below.
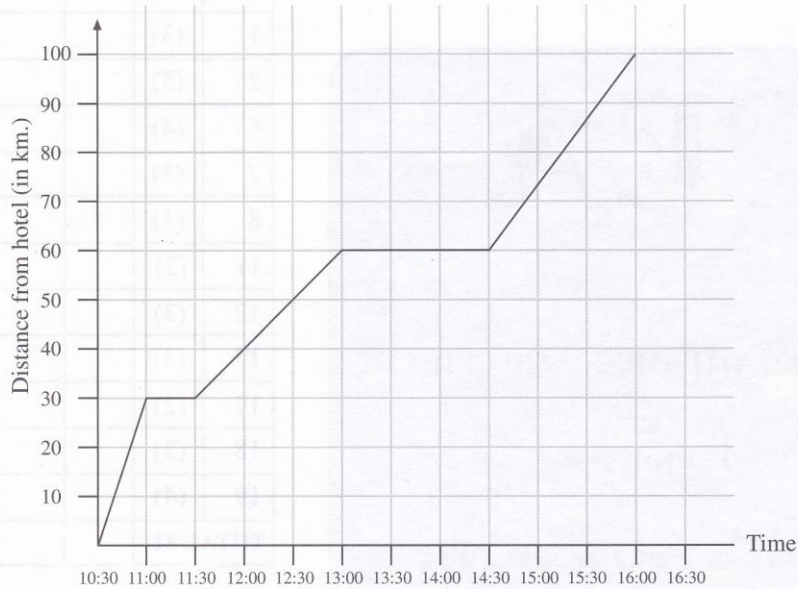
How far have they travelled from their hotel at **13:00**? Write your answer in the space below.

_____ km

2. How long did the Hughes family stop for morning coffee? Write your answer in the space below.

_____ mins

3. Write the correct number of **pence** in the space below.

    27 x 98p = £27 - _____ p

GO STRAIGHT TO PAGE 2

(3)

4. A metal box weighs 82 grams.
What is the weight of 23 metal boxes? Write your answer **in kilograms** in the space below.

_____ kg

5. I face **North**. I turn **135º anti-clockwise**. In what direction do I now face? Tick ☑ the correct answer.

South-East ☐

South-West ☐

North-East ☐

North-West ☐

6. Look at the number written in words below:

four hundred and seven and a half

What is this number as a **decimal number**? Write your answer in the space below.

_____

7. Look at the multiplication below:

82 x 27.5 = 2255

Use this multiplication to help you to do the calculation below.
Write your answer in the space provided.

8.2 x 27.5 = _____

8. Rose thinks of a number. She multiplies it by 8 and then adds 3.
Her answer is 147. What number did Rose think of?
Write your answer in the space below.

_____

The Lady and the Bear

A Lady came to a Bear by a Stream.
'O why are you fishing that way?
Tell me, dear Bear, there by the Stream,
Why are you fishing that way?'

'I am what is known as a Biddly Bear -
That's why I'm fishing this way.
We Biddly's are Pee-culiar Bears.
And so - I'm fishing this way.'

'And besides, it seems there's a Law:
A most, most exactious Law
Says a Bear
Doesn't dare
Doesn't dare
Doesn't DARE
Use a Hook or a Line,
Or an old piece of Twine,
Not even the end of his Claw, Claw, Claw,
Not even the end of his Claw.
Yes, a Bear has to fish with his Paw, Paw, Paw.
A Bear has to fish with his Paw.'

'O it's Wonderful how with a flick of your Wrist,
You can fish out a fish, out a fish, out a fish,
If *I* were a fish I just couldn't resist
You, when you are fishing that way, that way,
When you are fishing that way.'

And at that the Lady slipped from the Bank
And fell in the Stream still clutching a Plank,
But the Bear just sat there until she Sank;
As he went on fishing his way, his way,
As he went on fishing his way.

Theodore Roethke

9. Look at the **third verse** of the poem. In this verse, **two words** rhyme
    with the word **law**. Write the two words in the spaces below.

    _____   _____

(1)

10. The poet tells us that the bear's law of fishing is **very precise**. Find the **word** which the poet uses to describe the bear's law of fishing. Write the word in the space below.

   _____

11. In the **fourth verse** of the poem, the lady imagines what it would be like to be a fish. What phrase of **three or four words** does the lady use to describe how the fish is **strongly tempted to** swim towards the bear? Write the phrase in the space below.

   _____

12. What **word** in the **last verse** shows that the lady, in desperation, grasped the plank tightly? Write the **word** in the space below.

   _____

13. **According to the poem**, how do bears catch fish? Tick ☑ the correct answer.

   They use fallen branches to make a fishing rod   ☐

   They use their paws to catch fish within reach   ☐

   They use old twine to make a fishing line   ☐

   They use their claws as fish hooks   ☐

14. The words **they're**, **their** and **there** sound the same but are used differently. Complete the sentences below correctly by writing the word **they're**, **their** or **there** in the space provided.

The bear was _____ fishing by the stream.

When it comes to fishing, bears have _____ own method.

Bears stay close to the stream when _____ fishing.

15. The words **fell**, **exactious**, **bear** and **there** are used in the poem. Tick ☑ 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
fell				
exactious				
bear				
there				

16. Look at the statement below. There is a **missing number**. What number makes this statement true? Write the number in the space below.

125 is _____ % of 500

17. Look at the statement below. Find the number that makes the statement true. Write your answer in the space below.

If $18 \times d = 6$

then $6 \times d =$ _____

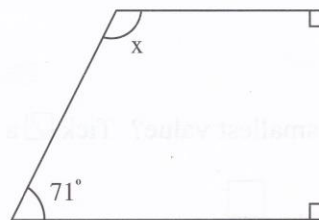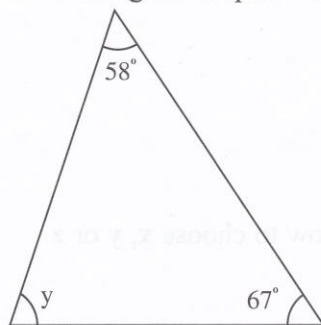18. Here are the scores of five pupils in a test.

Ruth   45 marks
Nigel   35 marks
Ciaran   45 marks
Louise   20 marks
Ciara   40 marks

What is the **mean** (average) mark for the pupils? Write your answer in the space below.

_____ marks

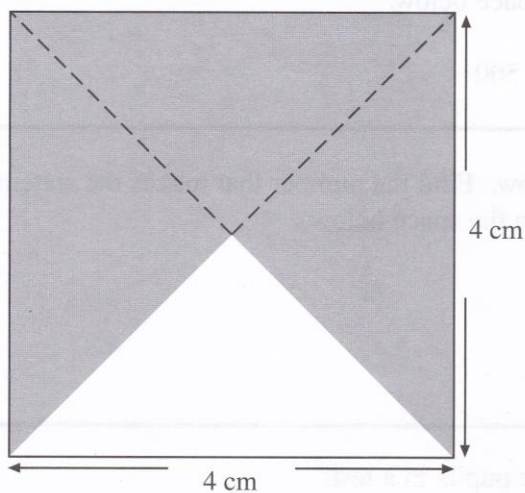19. Look at the triangle and quadrilateral below.

By **how many degrees** is angle x **greater** than angle y? Write your answer in the space below.

_____ °

20. A square tile is shown below. Find the **area** of the **shaded part** of the square tile.

4 cm

4 cm

Write your answer in the space below.

_____ cm^2

21. The temperature in Toronto is **- 4°C** and the temperature in Venice is **7°C**. What is the **difference in temperature** between Toronto and Venice? Write your answer in the space below.

_____ °C

22. Look at the three statements below:

x + 12 = 27

y × 2 = 26

z - 3 = 6

Which letter has the smallest value? Tick ☑ a box below to choose **x**, **y** or **z**.

x ☐

y ☐

z ☐

23. A teacher is photocopying a test. The cost of 202 photocopies is £313. What is the cost of 1212 photocopies? Write your answer in the space below.

£ _____

(1)

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

The virtual canteen

A company in Dublin is making healthy meals for (line 1)
delivery to schools. Parents use the company's website (line 2)
to order healthy school lunches for their children, The (line 3)
company then delivers these lunches directly to the school. (line 4)

Jamie Oliver has called for schools to provide there (line 5)
pupils with healthy, nutritious meals. Parents who use (line 6)
the website can be sure their children are eating healthy (line 7)
food containing ingredients that meet the school's healthy (line 8)
eating policy. (line 9)

Each lunch delivered to the school has the pupil's name (line 10)
attached, so that the school can easily distribute the (line 11)
lunches. But what about children who can't afford these (line 12)
healthy lunches. It would be a pity if only the children (line 13)
of wealthy parents benefited from Jamie Olivers school (line 14)
dinners campain. Surely all children deserve to have a (line 15)
satisfying, healthy lunch at school? (line 16)

24. Each line of the passage is numbered. A word has been used incorrectly in the passage. Tick ☑ the number of the line where the error was made.

line 1 ☐

line 5 ☐

line 6 ☐

line 11 ☐

25. A question mark is needed instead of a full stop in one line of the passage. Tick ☑ the number of the line where the question mark is needed.

line 6 ☐

line 9 ☐

line 13 ☐

line 15 ☐

(2)

26. There is a spelling error in one of the lines. Tick ☑ the number of the line containing the spelling error.

line 1 ☐

line 4 ☐

line 6 ☐

line 15 ☐

27. 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 8 ☐

line 14 ☐

line 15 ☐

28. In one line of the passage a comma has been used incorrectly. A full stop rather than a comma should have been used. Tick ☑ the number of the line in which this error was made.

line 3 ☐

line 6 ☐

line 11 ☐

line 16 ☐

29. A dress costs £95. It is **reduced** in price by **20%** in a sale. What is the price of the dress in the sale? Write your answer in the space below.

£ _____

30. Paul is using tins of peas to make "triangular" shapes. Paul uses **3 tins to make the shape** below. There are **2 tins in the bottom row**. Paul calls this shape a "triangle" of tins.
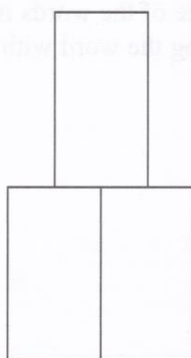
Paul uses **6 tins** to make a bigger triangle of tins. The new triangle is shown below. There are **3 tins in the bottom row** of this triangle.
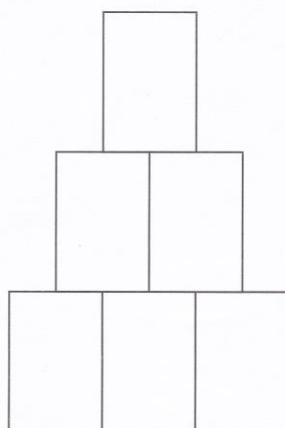
How many tins does Paul need to make a triangle with **8 tins in the bottom row?** Write your answer in the space below.

_____ tins

(2)

31. Paul uses **21 tins** to make a new triangle. **How many tins** are in the **bottom row**? Write your answer in the space below.

_____ tins

---

32. Look at the four numbers below.

0.32   **0.4**   **0.127** $^1/_3$

Put them **in order** from **smallest** to **largest**. Write the numbers in the space below. The smallest has been done for you.

0.127

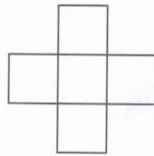**smallest**   **largest**

---

33. Megan is making patterns using square tiles. The **length of a side** of one of these square tiles is **1cm**.
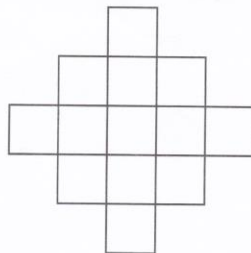
Look at the pattern below. This is the first pattern in a series of patterns that Megan makes. You can see that she uses **5 tiles** to make the **first pattern.**

The **perimeter** of the first pattern is **12 cm**.
The **area** of the pattern is **5 cm²**.

Look at the pattern below. This is the **second pattern** in the series. You can see that Megan uses **13 tiles** to make the second pattern.

What is the **perimeter** of the second pattern? Write your answer in the space below.

_____ cm

34. Megan adds more tiles to make the third pattern in the series.
What is the **area** of the **third pattern**? Write your answer in the space below.

_____ cm²

---

35. Look at the rule below:

Multiply the previous number by 3 and add $\frac{1}{2}$

Barry uses this rule to write a **sequence of four numbers**.
The **first** number Barry writes is **5**. The **third** number he writes is **47**.
Write the **two missing numbers** in the spaces below.

5 _____ 47 _____

---

36. Boxes A, B and C contain coloured balls. The number of balls in each box is:

Box A	**Box B**	**Box C**
3 green balls	**2 green** balls	**5 green** balls
4 red balls	**1 red** ball	**2 red** balls
2 white balls	**1 white** ball	**8 white** balls

Sean closes his eyes and takes a ball from each box.
From which box is he **most likely** to choose a **green** ball?
Write the letter A, B or C in the space below.

Box _____

(3)

Uncle Jack and the Other Man

I know a man who works on the land
Has a barrel for a chest and a huge flat hand
Can hurl a wheat-bag over a fence.

I like to watch him working in the sun
And see the little drops of perspiration run
Like bright flies slowly down his arms.

There was a story once that he took
A tight grip of the London phone book
And pulled it in half - but I don't believe it

Because he *never* boasts - it was Bongo Grass
Who invented that story, he's the worst in class
For pranks and fibs and exaggerations.

But he's certainly strong, and a little strange too:
When you pass him by he hardly speaks to you,
But pats his dogs or makes a cigarette.

He takes no interest in a conversation.
Not like my Uncle Jack. He works at the station
And is always talking when he finds a chance.

If you pay him a visit in his room at night
He'll build up the fire and in the leaping light
He'll tell you stories of ghosts and devils.

Sometimes I stay for hours.
                    Uncle Jack
Has skinny white legs and a painful back:
He can't lift a bag or tear the phone book

And yet, he's always interesting. I suppose
I'd like to be like Uncle Jack because he knows
So much... but I'd also like to grow - so I can
Hurl things about like that other man.

Keith Harrison

37. What **word** in **verse four** of the poem tells you that Bongo Grass is a schoolboy? Write your answer in the space below.

_____

38. Look at **verse five** of the poem. The first line of the verse is, "But he's certainly strong, and a little strange too." Who is the author referring to in this line? Tick ☑ the **best** answer.

Bongo Grass ☐

Uncle Jack ☐

The other man ☐

39. Find the **word** which is **closest in meaning** to each of the words below. Each word you're searching for appears somewhere in the **first three verses** of the poem. Write your chosen word in the space provided.

enormous _____

throw _____

sweat _____

grasp _____

40. Some statements about **the other man** are given below. **According to the poem**, only **two** of these statements are **true**. Tick ☑ the two true statements.

He smokes ☐

He has a painful back ☐

He works at the station ☐

He is very strong ☐

He is talkative ☐

(5)

41. The statements below are about **Uncle Jack**. **Based on what you have read in the poem**, tick ☑ the statements below that are **true**.

He enjoys pranks and fibs ☐

His knowledge is extensive ☐

He can tell ghost stories ☐

He owns several dogs ☐

42. Find the phrase of **three or four words** in the poem which shows that the other man isn't someone who shows off. Write the phrase of three or four words in the space below.

_____

43. Look at the statements below. **Based on what you have read in the poem**, which of the statements **best** describes **Uncle Jack's nephew**? Tick ☑ just **one** box.

He admires Bongo Grass more than Uncle Jack ☐

He admires the other man more than Uncle Jack ☐

He admires Bongo Grass more than the other man ☐

He admires both Uncle Jack and the other man ☐

(4)

44. Fish costs £9.60 for a **kilogram**.
How much does **250 grams** of fish cost?
Write your answer in the space below.

£_____

45. In this question you may use the grid below to plot points. In each of
the statements (a), (b) and (c) below you will be given the coordinates
of four points. By plotting these four points and joining them **in order**
you will be able to draw a **quadrilateral**.
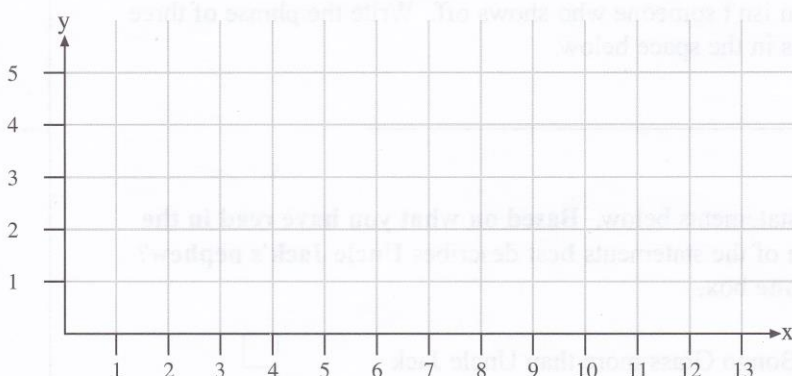
Here are the names of five quadrilaterals:

square   **rectangle**   **parallelogram**   **kite**   **trapezium**

Look at the statements below. Make statements (b) and (c) true by **choosing a
name** from the five above. Write **the name** in the space provided.
Statement (a) has been done for you.

(a)   (4 , 0)   (4 , 3)   (1 , 3) and (1 , 0) join to make a **square**

(b)   (2 , 1)   (4 , 1)   (5 , 4) and (1 , 4) join to make a   _____

(c)   (6 , 1)   (10 , 1)   (11 , 4) and (7 , 4) join to make a   _____

(2)

Do not write
in this column

46. Anne plays with red bricks and blue bricks. Look at the red brick and the blue brick below. The red brick is a cube and the blue brick is a cuboid.
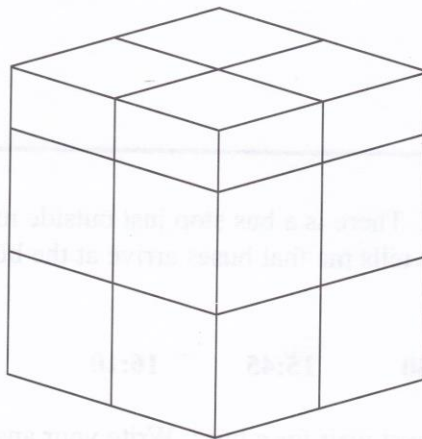

1 cm

1 cm   1 cm

Red Brick

$\frac{1}{2}$cm

1 cm   1 cm
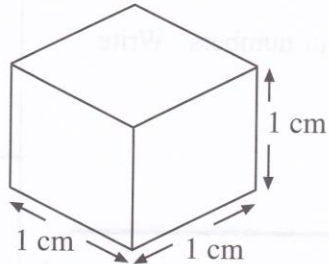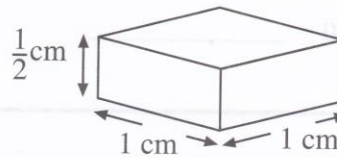
Blue Brick

Anne uses the bricks to build the block below. The block has two layers of red bricks and a layer of blue bricks on top.

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

_____ cm^3

47. Lesley leaves school at **3.30 pm** and cycles **at a steady speed** to her friend's house. Lesley's friend lives **3 kilometres** from the school. Lesley arrives at her friend's house at **3.40 pm**. **How many metres** does Lesley cycle **in one minute**? Write your answer in the space below.

_____ metres

(2)

48. Look at the four numbers below

| 0.09894 | 0.9894 | 9.894 | 98.94 |

The answer to the calculation below is one of the four numbers. Write the number you have chosen in the space below.

9.7 x 102 ÷ 100 = _____

---

49. One of the decimal numbers below is **bigger than** $4\frac{2}{3}$ **and smaller than** $4\frac{3}{4}$ Tick ☑ the correct answer.

4.53 ☐

4.63 ☐

4.73 ☐

4.83 ☐

---

50. I get out of school at **3.32pm**. There is a bus stop just outside my school. A sign at the bus stop tells me that buses arrive at the bus stop at the times below:

| 13:25 | 14:10 | 15:30 | 15:45 | 16:10 |

What is the **shortest time** I must wait for a bus? Write your answer in the space below.

_____ minutes

---

51. I have saved **24 coins** in my money box. My money box contains at **least 3 of each** of the following coins:

| 5p | 10p | 20p | 50p | £1 | £2 |

What is the **greatest** amount of money I could have in my money box? Write your answer in the space below.

£ _____

Do not write in this column

(4)

Emil and the detectives

Emil woke up just as the train was pulling out of a station, and found himself on the floor, feeling very frightened. He must have been asleep, he thought, and slipped off the seat. Now, for some reason, his heart was beating like a sledgehammer. He could not remember where he was at first, then gradually it all came back to him. Of course, he was in a train, going to Berlin, in a compartment with a man in a bowler hat - and he had fallen asleep too.

The man in the bowler hat! That brought Emil's wits back. He sat up and rubbed his eyes. The man was gone. Emil got slowly to his feet, feeling quite shaky. Then, from sheer force of habit, he began to brush the dust off his trousers and jacket - and that reminded him of the money. Was it safe? He could not bear to feel for it in case it was gone. He leaned against the door, too anxious to raise a finger, just staring at the seat where that man called Grundeis had been sitting, and had gone to sleep, and snored. Now Grundeis was gone.

It was silly to take the worst for granted like this, just because the man had left the train while Emil himself was asleep. Naturally the passengers would not all be going as far as the Friedrich Street station where he was to get out. Of course not. And he had pinned the money in its envelope securely on to the lining of his jacket, so surely it must be safe. He had only to put his hand into that inner pocket on the right-hand side... His hand went slowly towards it... and felt about in it. The pocket was empty! The money had gone.

Erich Kästner

52. **Based on what you have read,** tick ☑ the correct box to show whether the following statements are **true or false**.

	True	False
Friedrich Street station is in Berlin	☐	☐
Emil saw Grundeis steal his money	☐	☐
Emil's money was missing from his pocket	☐	☐

Based on what you have read, tick ☑ the correct box to show whether the following statements are **true** or **false**.

	True	False
he man in the bowler hat gave Emil the money	☐	☐
rundeis got off the train at Friedrich Street station	☐	☐
mil was in his seat when he woke up	☐	☐
rundeis snored as he slept	☐	☐

3. Look at the five sentences below. Use your **understanding of the passage** to **put these events in the order in which they happened**. Use the numbers 1 to 5 to show the order. The first event has been done for you.

rundeis falls asleep. _____

he train leaves the station. ___1___

mil falls asleep. _____

he train arrives at Friedrich Street station. _____

mil realises his money is missing. _____

LOOK OVER YOUR PAPER UNTIL TIME IS UP.

(4)

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