

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

CEA

Common Entrance Assessment

Paper 1

Saturday 10 November 2012

Time: 1 Hour

Please fill in the following from your admission card:

Your Candidate Number _____

Your Assessment Centre _____

Your Date of Birth _____

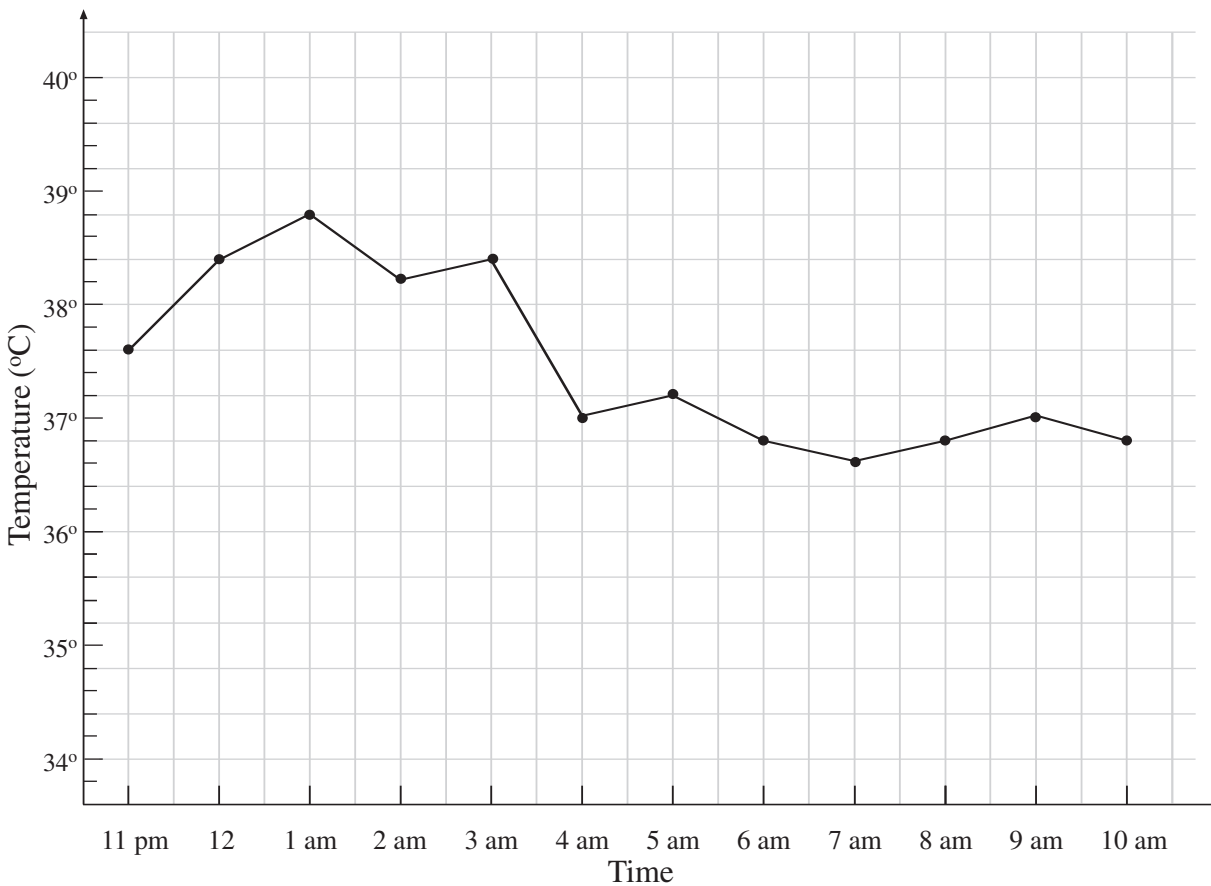
Answer all 58 questions in this booklet

NOT TO BE FILLED IN BY THE PUPIL			
MATHEMATICS			
Page	Marks	Score	Check
1	(2)		
2	(4)		
3	(2)		
7	(3)		
8	(3)		
9	(2)		
13	(2)		
14	(3)		
15	(3)		
19	(3)		
20	(4)		
21	(1)		
TOTAL 32			

NOT TO BE FILLED IN BY THE PUPIL			
ENGLISH			
Page	Marks	Score	Check
4	(2)		
5	(7)		
6	(2)		
10	(1)		
11	(3)		
12	(1)		
16	(2)		
17	(4)		
18	(2)		
23	(5)		
24	(3)		
TOTAL 32			
TOTAL SCORE			

1. What is **one third** of **54**? Write your answer in the space below.

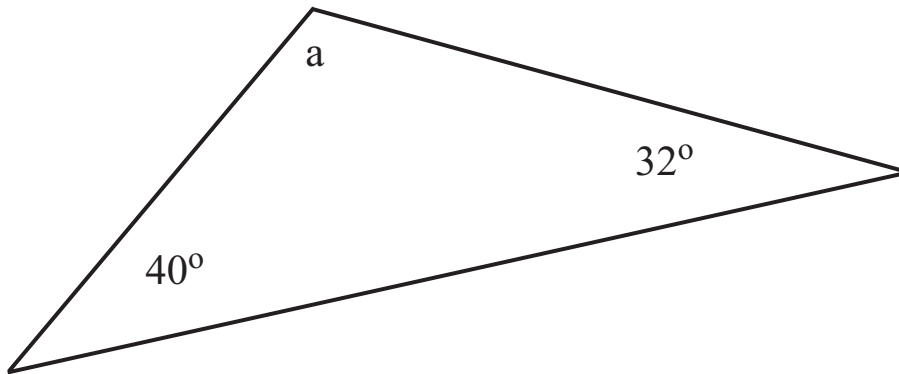
2. When in hospital Jill had her temperature taken **every hour**. The line graph below shows her temperature every hour between **11 pm** and **10 am**.



At what time was Jill's temperature **highest**? Write your answer in the space below.

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in this column

3. Look at the triangle below.



What is the value of a ? Write your answer in the space below.

_____ $^\circ$

4. Look at the sequence of numbers below. **Complete the sequence** by writing the correct number in the space provided.

1 3 6 10 _____

5. An empty classroom measures **4 m** by **8 m** by **3 m**. What is the **volume** of air in the classroom? Write your answer in the space below.

_____ m^3

6. **Jack** is **65** years old. Jack's age is **5 times David's** age. **How old is David?** Write your answer in the space below.

_____ years

Do not write
in this column

11. Look at the **four words** below. For each word find the word **opposite in meaning** to it and write it in the space provided. Each of the words you're looking for appears somewhere **in the poem**.

under _____

shallow _____

remembered _____

warm _____

12. The words **its** and **it's** are used in the poem. Circle the correct use of these words in the passage below.

I really like this poem. **Its** **It's** one of my favourites. **Its** **It's** an easy poem to read and **its** **it's** verses are not too long.

13. Look at the **five statements** below. **Based on your reading of the poem**, which **three statements** let us know that the poet is afraid of the dark? Tick the **three** correct statements below.

The poet hides her head under the duvet.

The poet hides in the hall cupboard.

The poet hides a torch under the pillow.

The poet has a night light turned on.

The poet admits to being afraid.

14. Look at the **three words** below. They are written in the **present tense**. Write the **past tense** of each word in the space provided. **The answers are in the poem. Be careful with your spelling.**

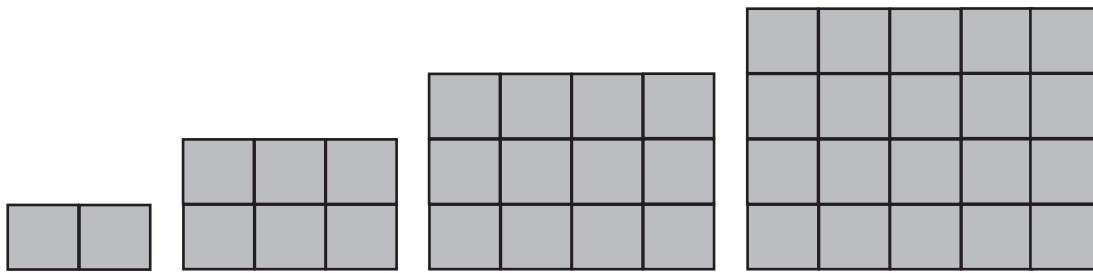
say _____

fill _____

choose _____

Do not write in this column

16. Patterns are formed from square tiles. The **first four patterns** in a sequence are shown below.



Pattern 1

Pattern 2

Pattern 3

Pattern 4

How many tiles are needed to make the **sixth** pattern? Write your answer in the space below.

_____ tiles

17. Take $\frac{1}{2}$ of 100 from $\frac{3}{4}$ of 140. Write your answer in the space below.

18. A letter is chosen at random from the letters of the word

M I S S I S S I P P I

Look at the **3 statements** below. Tick **True** or **False** for each statement.

	True	False
The letter chosen is least likely to be P .	<input type="checkbox"/>	<input type="checkbox"/>
There is an even chance of choosing the letter S	<input type="checkbox"/>	<input type="checkbox"/>
There is a greater chance of choosing I than P .	<input type="checkbox"/>	<input type="checkbox"/>

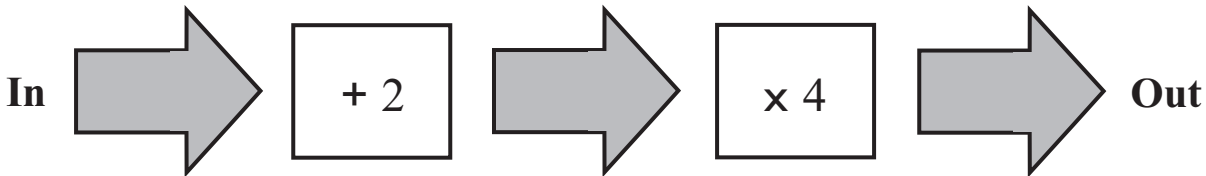
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19. How many millimetres are there in one metre? Tick the correct answer.

- 1000
- 10000
- 100000
- 1000000

Do not write in this column

20. Look at the function machine below.



Use this function machine to complete the table below.

In	Out
1	12
2	
	40

21. A bus leaves the bus station with 30 passengers on board. At the first stop 7 passengers get off and 11 get on. At the second stop 10 passengers get off and 5 get on. How many passengers are on the bus as it leaves the second stop? Write your answer in the space below.

_____ passengers

22. At 4 pm the temperature in Bangor was 5°C . At 6 pm the temperature was 7°C lower. **What was the temperature in Bangor at 6 pm?** Write your answer in the space below.

_____ $^{\circ}\text{C}$

23. A song lasts 3 minutes and 40 seconds. Another song lasts 3 minutes and 30 seconds. One song is played immediately after the other. **For how long do the two songs last? Give your answer in minutes and seconds.** Write your answer in the spaces provided.

_____ minutes _____ seconds

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

Do not write
in this column

Dear Aunt Hilda

We're having a lovely time in Florida! Are flight was long but (line 1)
pretty comfortable. Yesterday we spent the day at the Disney resort. (line 2)
It's very noisy and busy with queues of people for every ride. I loved (line 3)
them all, even the scary ones, but Sam got really sick on one of the (line 4)
rollercoasters and had to sit down, Today we visited a seapark and (line 5)
saw dolphins, whales, sealions and penguins. They were trained (line 6)
to do tricks like playing basketball and dancing to music. (line 7)
Mums having a good time, especially at the huge shopping mall. (line 8)
I've never seen so many shops in one place! Dad's really looking (line 9)
forward to a day on the golf coarse tomorrow. The rest of us will chill (line 10)
out at the pool. Our villa's got its own pool! Can you believe it. (line 11)
I hope you are keeping well. Send my love to Leontia and Jeff. (line 12)
Wish you were here! (line 13)

Claire

24. Each line of the passage is numbered. 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 3

line 7

line 10

line 11

29. Bobby buys his favourite comic each week. Each week, for **8** weeks, he counts the number of pages in the comic. He makes a list of the **numbers of pages** in the comic **each week**. Look at the list below.

32 40 36 36 36 40 40 28

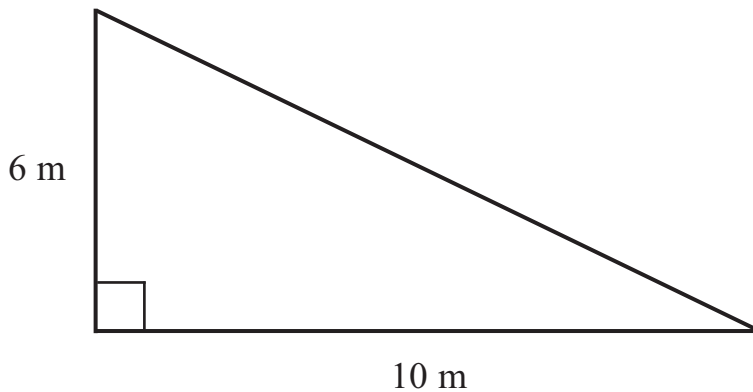
- (a) What is the **mean** (average) number of pages? Write your answer in the space below.

_____ pages

- (b) Look again at the 8 numbers in Bobby's list. What is the **range**? Write your answer in the space below.

_____ pages

30. Look at the triangle below.



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

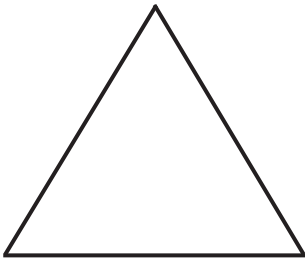
_____ m²

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31. 200g of potatoes costs £1.25. How much would one kilogram of these potatoes cost? Write your answer in the space below.

£ _____

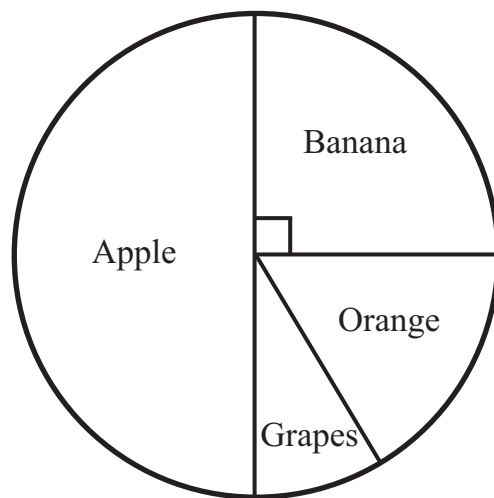
32. Look at the shapes below.



How much bigger is an angle in the rectangle than an angle in the equilateral triangle? Write your answer in the space below.

_____ °

33. Joe asks 20 people to name the fruit that they like the most. He shows his results in the pie chart below.



How many people like bananas? Write your answer in the space below.

_____ people

Do not write
in this column

34. How many more people like **apples than** like **bananas**? Write your answer in the space below.

_____ people

35. Helen eats $33\frac{1}{3}\%$ of a pie. The **remainder** of the pie is shared **equally** between Irene and Maggie. **What fraction** of the pie does **Maggie** receive? Tick the correct box below.

one quarter

one third

one half

36. Look at the calculation below.

$$5550 \times 112 = 621600$$

Use this to help you **complete the two calculations** below. Write your answers in the spaces provided.

(a) $555 \times 112 =$ _____

(b) $621600 \div 555 =$ _____

Do not write
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The Story

The pen labours across her page.
Adventure or Romance,
The teacher said.

Letters hard, words worse,
Story seems impossible.
Confusion in her head.

Scratching and scraping shapes
onto the clean white expanse,
some letters recreated.

Tongue sticking out,
Forehead creased in concentration,
messy muddles cascaded.

Boisterous boy beside her,
his ink seems to dance:
smooth flowing flourishes
looping letters
legible.

37. Look at the **four statements** below. Complete the statements by writing the **missing word** in the space provided. The first one is done for you. **Be careful with your spelling.**

Looping comes from the verb to loop

Scratching comes from the verb to _____

Scraping comes from the verb to _____

Flowing comes from the verb to _____

Do not write
in this column

38. Based on your reading of the poem, consider each statement below and decide if it is **true** or **false**. Tick the box to show your answer.

True **False**

The pupils have no choice in the type of story they write.

The male pupil in the poem is shy and quiet.

The two pupils are writing a story.

39. Some of the lines in this poem **rhyme**. **Line 2** in **verse one** rhymes with **line 2** in some of the other verses. **Which** verses? Tick the correct answer below.

Verses 2 and 3

Verses 3 and 4

Verses 3 and 5

40. Look at the **three statements** below. **Based on your reading of the poem**, which of these statements is **most likely** to appear in the **female pupil's** school report? Tick the best answer.

A pupil with a great, natural flair for writing.

A very hard working pupil who works to the best of her ability.

A pupil who always presents her work in a beautiful manner.

41. Look at **verse three**. What does the phrase "**clean white expanse**" refer to? Tick the **best** answer below.

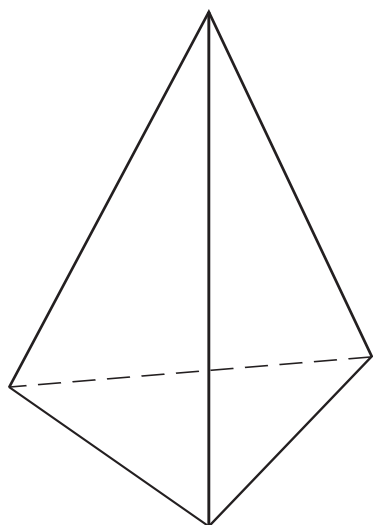
The blank page on the pupil's desk.

The whiteboard behind the teacher's desk.

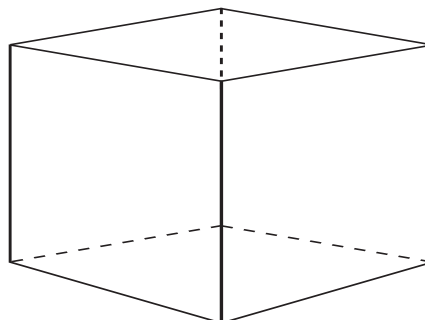
The pupil's thoughts about the story.

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44. Look at the 2 **three-dimensional** shapes below.



Triangular Pyramid



Cube

Complete the table below. There are **4 blank** boxes. Write the **correct number** in each of the 4 blank boxes.

Shape	Number of edges	Number of vertices	Number of faces
Triangular Pyramid		4	
Cube	12		

45. Margaret buys petrol for her car. It costs Margaret **£1.40** to travel **10 km** in her car. **How much** would it cost to travel **20 km**? Write your answer in the space below.

£ _____

46. Margaret drives **from her house to the airport**. The petrol for this journey costs **£4.20**. **How far** is the airport from her house? Write your answer in the space below.

_____ km

Do not write in this column

47. Each side of a square tile has length 20 cm. How many square tiles are needed to cover a rectangular floor which measures 1.2 m by 40 cm? Write your answer in the space below.

_____ tiles

48. How many degrees are there in one fifth of a right angle? Write your answer in the space below.

_____ °

49. How many numbers between 30 and 50 are odd numbers but not multiples of 5? Write your answer in the space below.

_____ numbers

50. Sharon starts watching a DVD at 19:30. She watches for 130 minutes. At what time did she finish watching the DVD? Give your answer using the 12 hour clock. Write your answer in the space below.

_____ pm

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Mr Browning

Rory had read the Alex Ryder novels and watched the Spykids movies. He knew something was not right. Alarm bells had started to ring in his head when all the curtains in the windows of his neighbour's home had been drawn a few days ago and remained unopened. From the street it was almost impossible to see the Browning house, so Rory used his binoculars to get a better view of Number 33 from his mum's bedroom window. Post was bulging from the letter box and the overgrown garden with its towering hedges was looking more untidy than ever.

Mr Browning never went on holiday. In fact, Rory wasn't sure that people as old as Mr Browning even went on holiday. Anyway, the old grump would've arranged for someone to feed his cat and for the last three days Rory had woken to the sound of the fat tabby yowling in the alleyway.

At breakfast the previous day Rory had tried to share his concern with his mum but, as usual, she only half-listened as Rory spoke. "Mum, I've been watching Mr Browning's house. There's definitely something up over there!" he informed her while munching on his cereal. "Rory, I have told you before, leave Mr Browning alone. He deserves some peace in his old age. He certainly doesn't need you and your brother kicking balls into his garden or making up ridiculous scare stories about him like the other kids. Now I've got to go, I'm running late as it is" she shouted, already half-way through the hall.

No-one ever listens to me, thought Rory sulkily. When he was younger he had believed the stories about creepy old Browning. In fact, until he was twelve, Rory would cross the road to avoid passing Number 33. Now older, he knew that it was unlikely that the pensioner was a serial killer with bodies in his basement. Trusting his instinct, and trying to ignore the old fears creeping through his body, he decided to investigate.

As the rickety gate creaked open, Rory stepped into the wild and overgrown garden and moved closer to the house. He could hear a muffled voice. "Help me! Help!" it cried. With trepidation he peered through a gap in the curtains. There, on the floor, one leg bent at an awkward angle, was poor, frail Mr Browning.

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in this column

52. Look at **paragraph one**. Why can't the Browning house be seen from the street? Tick the correct answer below.

A van is blocking the view.

Rory has poor eyesight.

The hedges are very high.

53. What phrase of **five words** in **paragraph three** tells us that Rory has spoken to his mother about Mr Browning **in the past**? Write your answer in the space below.

54. Look at **paragraph three** of the passage. Which **one** of the following words **best** describes Rory's mother? Tick the correct answer below.

late

frightened

lazy

timid

55. The three words **instinct**, **creepy** and **cross** are used in **paragraph four** of the passage. Tick the correct box to show whether each one has been used as a verb, noun, adverb or adjective.

	verb	noun	adverb	adjective
instinct				
creepy				
cross				

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