

**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**

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### 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)		
<b>TOTAL 32</b>			

NOT TO BE FILLED  
IN BY THE PUPIL

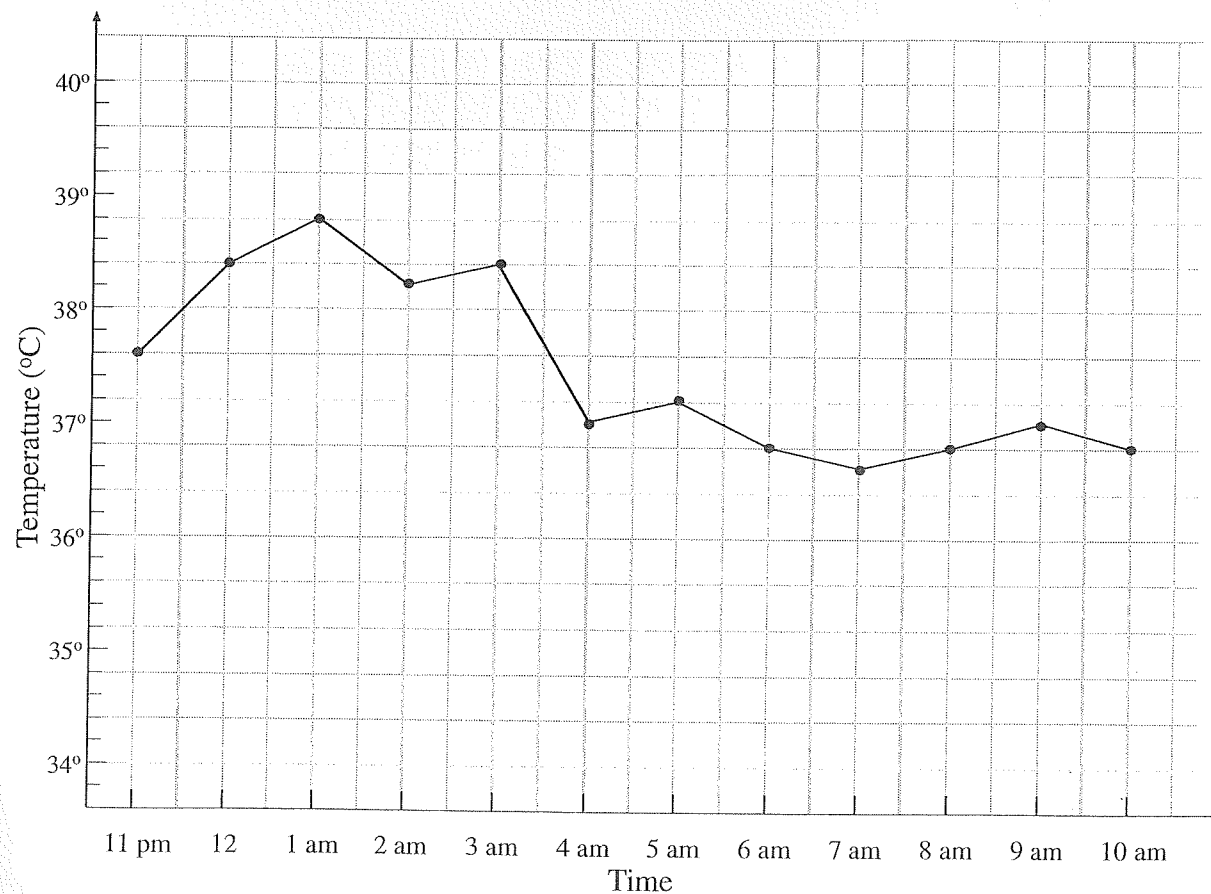
### ENGLISH

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)		
<b>TOTAL 32</b>			
<b>TOTAL SCORE</b>			

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**.

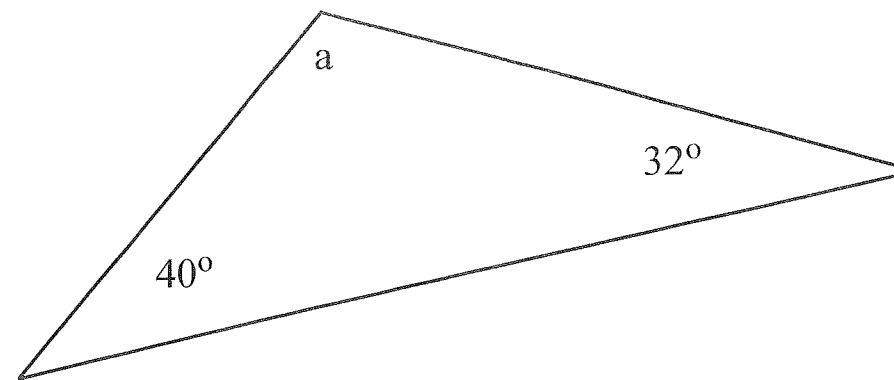


At what **time** was Jill's temperature **highest**? Write your answer in the space below.

\_\_\_\_\_

Do not write in this column

3. Look at the triangle below.



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

\_\_\_\_\_ °

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<sup>3</sup>

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 **three 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 \_\_\_\_\_

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's head is hidden under the duvet.

The poet hides in the hall cupboard.

The poet has 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.**

forget \_\_\_\_\_

fill \_\_\_\_\_

choose \_\_\_\_\_

Do not write in this column

15. This poem rhymes. Sometimes words at the ends of lines rhyme, sometimes words within a line rhyme. For **each of the words** below find the **word in the poem that rhymes with it**. Write your answers in the spaces provided.

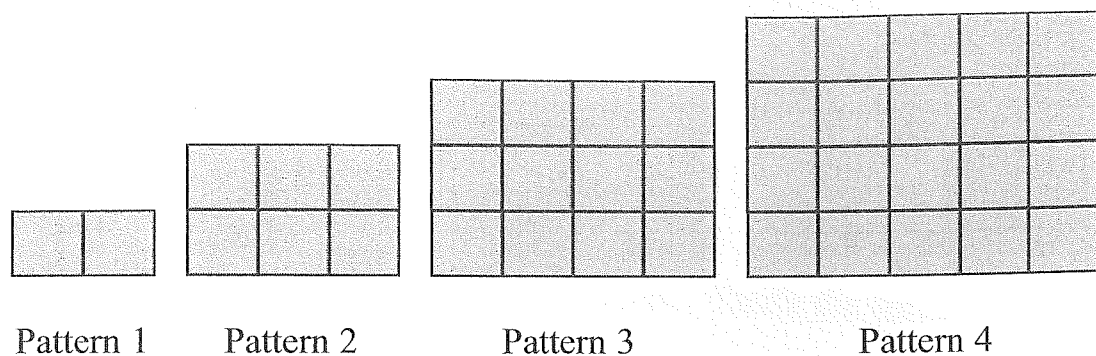
said \_\_\_\_\_

there \_\_\_\_\_

glow \_\_\_\_\_

Do not write in this column

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



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.

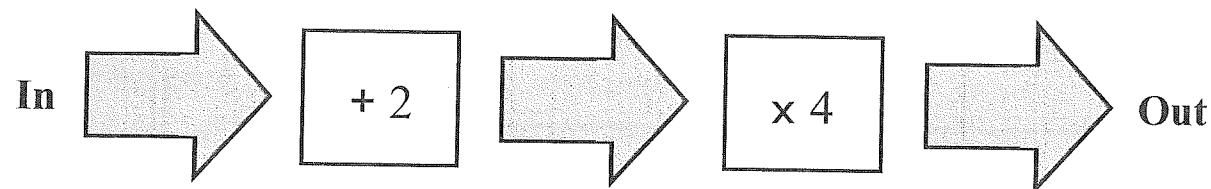
	True	False
The letter chosen is least likely to be P.	<input type="checkbox"/>	<input type="checkbox"/>
There is an even chance of choosing the letter S	<input type="checkbox"/>	<input type="checkbox"/>
There is a greater chance of choosing I than P.	<input type="checkbox"/>	<input type="checkbox"/>

Do not write in this column

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

- 1000
- 10000
- 100000
- 1000000

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

Do not write in this column

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.

\_\_\_\_\_ °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 the total time in minutes and seconds. Write your answer in the spaces provided.

\_\_\_\_\_ minutes \_\_\_\_\_ seconds

Do not write in this column

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

**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, sea lions 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 course tomorrow. The rest of us will chil (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

Do not write in this column



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

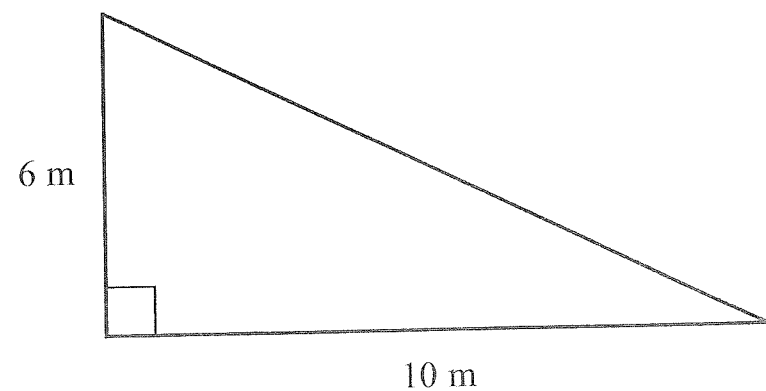
(a) What is the **mean** (average) number of pages? Write your answer in the space below.

\_\_\_\_\_ 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.

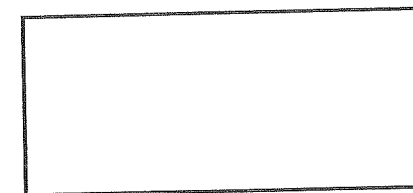
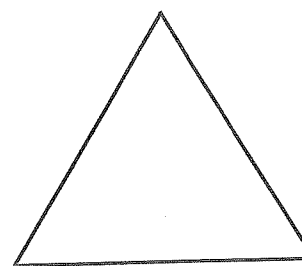
\_\_\_\_\_ m<sup>2</sup>

Do not write in this column

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. 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.

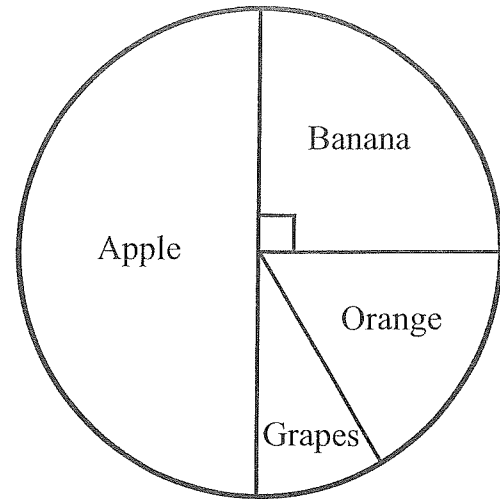
(a)  $555 \times 112 =$  \_\_\_\_\_

(b)  $621600 \div 555 =$  \_\_\_\_\_

Do not write in this column



34. Joe asks 20 people to name the fruit that they like the most. He shows his results in the **pie chart** below. The vertical line through the centre of the pie chart is a straight line.



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

\_\_\_\_\_ people

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

\_\_\_\_\_ people

36. 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

Do not write in this column

### 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





51. Four boys named Bob, Zach, William and Jim are standing in order of increasing height.

Jim is taller than William

Bob is taller than William

Zach is taller than Jim

Jim is taller than Bob

Use this information to **work out the order** in which they are standing. Write the **correct name** in each of the spaces below.

\_\_\_\_\_ (shortest)

\_\_\_\_\_ (tallest)

Do not write in this column

### 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 Rory had tried to share his concern with his mum but 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.

Do not write in this column

52. Look at **paragraph one**. Why can't the Browning house be seen from the street? Tick  the **best** 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 **creepy**, **instinct** 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
creepy				
instinct				
cross				

Do not write in this column

56. Which word in **paragraph five** is **closest in meaning** to weak? Write your answer in the space below.

\_\_\_\_\_

57. **Based on your reading of the passage**, consider each of the **three statements** below. Is each **true** or **false**? Tick  the box to show your answer.

**True**      **False**

Rory is an only child      

Rory moved house recently      

Rory is an observant boy      

58. **Based on your reading of paragraphs one and two**, why does Rory think that something suspicious has happened at Number 33? Look at the **three possible reasons** below. In each case decide if it is **true** or **false**. Tick  the correct box to show your answer.

**True**      **False**

The curtains have been drawn for a few days.      

A burglar alarm can be heard from the house.      

The usually tidy garden has become overgrown.      

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