

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

CEA

Common Entrance Assessment

Paper 3

Saturday 4 December 2010

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	(3)		
3	(2)		
7	(2)		
8	(3)		
9	(3)		
13	(3)		
14	(2)		
15	(3)		
19	(3)		
20	(3)		
21	(2)		
TOTAL 32			

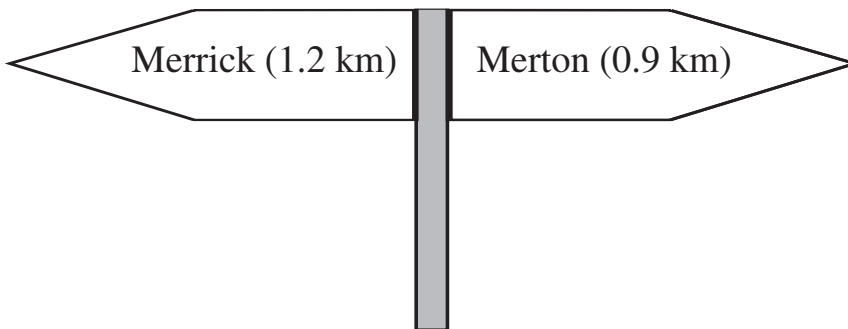
NOT TO BE FILLED IN BY THE PUPIL			
ENGLISH			
Page	Marks	Score	Check
5	(6)		
6	(3)		
11	(3)		
12	(2)		
17	(4)		
18	(6)		
22	(1)		
23	(6)		
24	(1)		
TOTAL 32			
TOTAL SCORE			

1. Complete the table below by filling in the **4 blank boxes**.

Decimal	Fraction	Percentage
0.1		
0.75	$\frac{3}{4}$	75%
		50%

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2. Two small towns, called **Merrick** and **Merton**, are connected by a long **straight** road. The signpost below is located on the road between the towns.



What is the **distance between the 2 towns**? Write your answer in the space below.

_____ km

3. The **normal** price of a coat is **£64**. In a **sale** Christine pays **75% of the normal price**. **How much does she pay** for the coat in the sale? Write your answer in the space below.

£ _____

4. A map has the following scale:

1 centimetre represents 8 kilometres.

The distance between 2 towns **on the map** is **6.2 cm**. What is the **actual distance** between the 2 towns in **kilometres**?

Write your answer in the space below.

_____ km

5. Write **567 minutes** in **hours** and **minutes**. Write your answer in the spaces below.

_____ hours _____ minutes

6. I am facing **East**. Through **how many degrees** must I turn **clockwise** to face **North West**? Write your answer in the space below.

_____ °

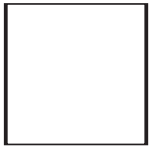
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7. Bronagh is making shapes using square tiles. The first 3 shapes are shown below.

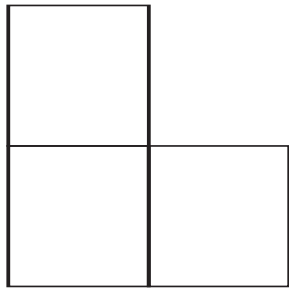
Shape 1 has 1 tile.

Shape 2 has 3 tiles.

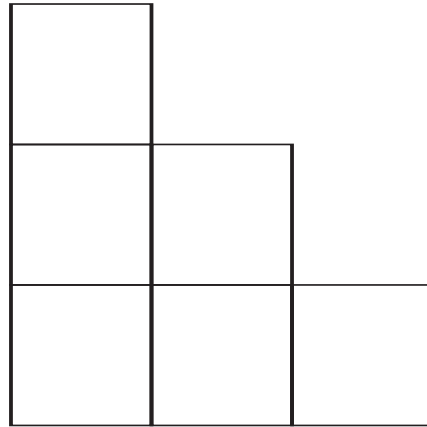
Shape 3 has 6 tiles.



Shape 1



Shape 2



Shape 3

How many tiles are there in **Shape 6**? Write your answer in the space below.

_____ tiles

8. Look again at the number of tiles in the first 3 shapes. The number of tiles in each shape is called a “**triangular number**”. The first 3 triangular numbers are **1, 3** and **6**. Now look at the 4 numbers below. **Two** of these numbers are triangular numbers. Tick the 2 triangular numbers.

20

45

33

36

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Poem 1 and questions 9 to 15 here

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Poem 1 and questions 9 to 15 here

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Poem 1 and questions 9 to 15 here

18. Danielle uses her calculator to carry out the calculation:

$$24.3 \times 5.9 = 143.37$$

Look at the calculations below.

Tick the **two** calculations that **give the answer 143.37**

You may use Danielle's calculation to help you.

$$2.43 \times 590 \quad \square$$

$$2.43 \times 5.9 \quad \square$$

$$2.43 \times 59 \quad \square$$

$$24.3 \times 59 \quad \square$$

$$243 \times 0.59 \quad \square$$

19. **Normal** body temperature is **36.8°C**. Paula was not feeling well so she went to see the school nurse. The nurse took her temperature and it was **38.6°C**. How much was her temperature **above normal**? Write your answer in the space below.

_____ °C

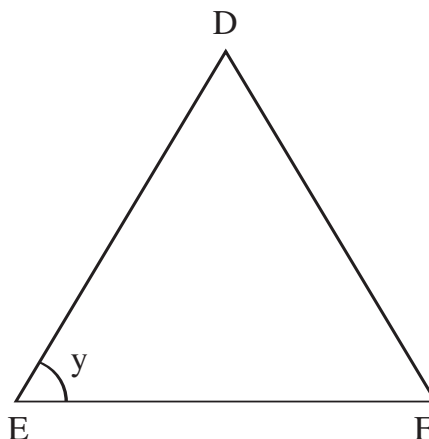
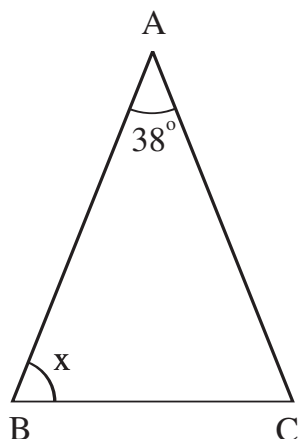
20. Look at the **2 calculations** below. Complete each calculation by writing the correct number in the space below.

(a) $7^2 - 16 =$ _____

(b) $5^2 - 17.2 =$ _____

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21. Look at the 2 **triangles** below. The triangle **ABC** is **isosceles**. The sides **AB** and **AC** are the **same length**. The triangle **DEF** is **equilateral**.



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

_____ °

22. Look at the statement below. Write a number in the box to **make the statement true**.

Seven tenths is the same as hundredths.

23. A carton containing **1.75 litres** of orange juice costs **£2.45**.

- (a) What is the **cost** of a **quarter litre** of orange juice? Write your answer in the space below.

_____ pence

- (b) What is the **cost** of orange juice **per litre**? Write your answer in the space below.

£ _____

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The Mask of Dimitrios

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The train reached the frontier in the early hours (line 1)
of the morning and he was awakened by the (line 2)
attendant for his papers. Mr Peters was still reading. (line 3)
His papers had already been examined by the Greek (line 4)
and Bulgarian officials in the corridor outside and (line 5)
Latimer did not have an opportunity of ascertaining (line 6)
the nationality of the citizen of the world, A Bulgarian (line 7)
customs official put his head in the compartment, (line 8)
frowned at their suitcases and then withdrew. Soon the (line 9)
train moved on over the frontier. Dozing fitfully, Latimer (line 10)
saw the thin strip of sky between the blinds turn blue-black (line 11)
and then grey. The train was due at Sofia at seven. (line 12)
When, at last, he rose to dress and collect his belongings, (line 13)
he saw that Mr Peters had switched of his reading lamp (line 14)
and had his eyes closed. As the train began to rattle over (line 15)
the network of points outside Sofia, he gently slid the (line 16)
compartment door open. (line 17)

Mr Peters stirred and opened his eyes. (line 18)
“I’m sorry,” said Latimer, “I tried not to waken you.” (line 19)
In the semi-darkness of the compartment, the fat man’s (line 20)
smile looked like a clown’s grimace. “Please don’t trouble (line 21)
yourself about me,” he said. “I was not asleep. I meant to (line 22)
tell you that the best hotel for you to stay at would be the (line 23)
Slavianska Bessedra.” (line 24)
“That’s very kind of you, but I wired a reservation from (line 25)
Athens to the Grand Palace. It was recommended to me. (line 26)
Do you know it.” (line 27)
“Yes. I think it’s quite good.” The train began to slow down. (line 28)
“Goodbye, Mr Latimer.” (line 29)
“Goodbye.” (line 30)
In his eagerness to get to a bath and some breakfast it did (line 31)
not occur to Latimer to wonder how Mr Peters had (line 32)
discovered his name. (line 33)

Eric Ambler

27. 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 7

line 10

line 13

line 22

28. 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 11

line 16

line 25

line 26

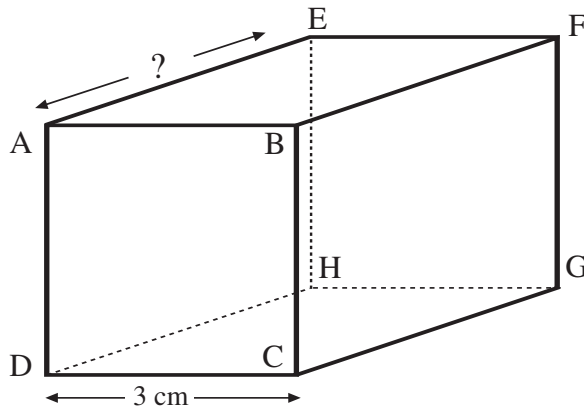
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29. Complete the calculation below by writing the correct **decimal number** in the box.

--

 $\times 8 = 75.2$

30. Look at the cuboid below.



ABCD is a **square**. Each side of the square is **3cm**. The **volume** of the cuboid is **36cm³**. What is the **length** of the line **AE**? Write your answer in the space below.

_____ cm

31. Ross bought **5 items** in a supermarket. His receipt is shown below.

Milk	
Eggs	£0.91
Bread	£1.34
Juice	£0.49
Meat	£3.25
Total	£6.87

The price of the milk has been **torn off** the receipt. How much was the milk? Write your answer in the space below.

£ _____

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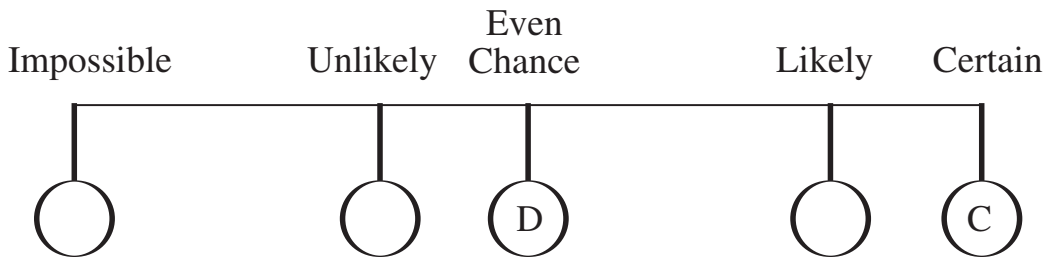
32. Look at the **6 cards** below. **Each has a number on it.** These cards are shuffled and placed face down on a table so **that the number on each card cannot be seen.**



One card is picked at random and turned over. Look at the following 5 statements:

- A. There is an **even number** on the card.
- B. There is a **number less than 2** on the card.
- C. There is a **factor of 24** on the card.
- D. There is a **multiple of 6** on the card.
- E. There is a **prime number** on the card.

Write the letters **A** to **E** in the circles below to **match a probability to each statement.** Two have been done for you.



33. Four athletes competed in the long jump. The **distance** each athlete **jumped** is recorded in the table below.

Athlete	Distance jumped
John	195.8 cm
Gerard	1.956 m
Bernard	196 cm
James	1957 mm

Which athlete's jump was the **longest**? Write the **name** of the athlete in the space below.

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Poem 2 and questions 37 to 43 here

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Poem 2 and questions 37 to 43 here

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Poem 2 and questions 37 to 43 here

44. At a bank in the airport, **£1** can be exchanged for **1.1 euro**. Look at the **4 statements** below. **One** statement is **more accurate** than the others. Tick the **most accurate** statement.

1 euro can be exchanged for about **60p**

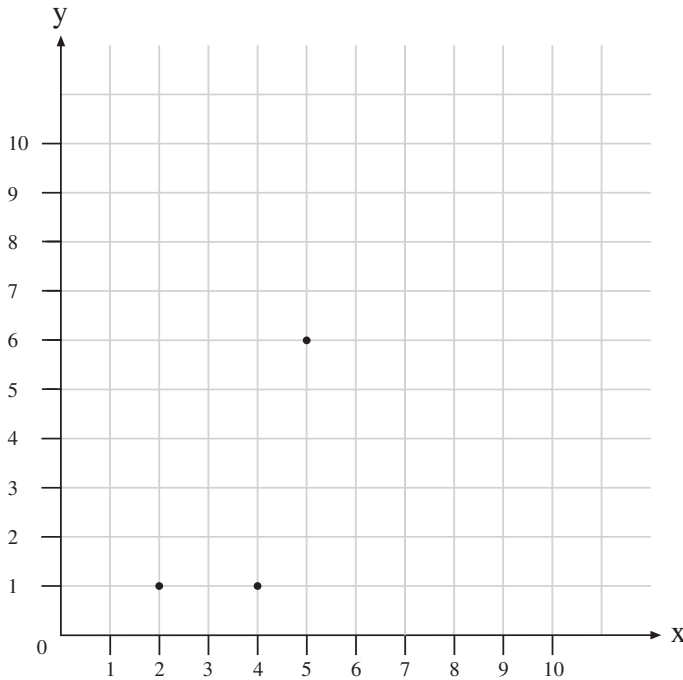
1 euro can be exchanged for about **70p**

1 euro can be exchanged for about **80p**

1 euro can be exchanged for about **90p**

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45. Three of the vertices of a **parallelogram** are shown by **dots in the grid** below.

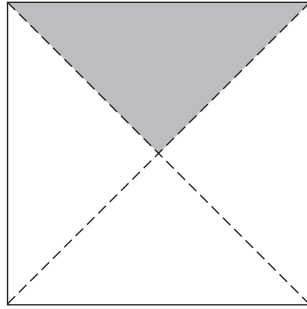


Two possible points for the **fourth** vertex **can be drawn on the grid**. Write the **coordinates** of the **2 points** in the spaces below.

(,) (,)

46. A number is made up of **3 tenths**, **4 tens** and **5 hundreds**. Jane **divides** this number **by 10**. What **decimal** number does Jane get? Write your answer in the space below.

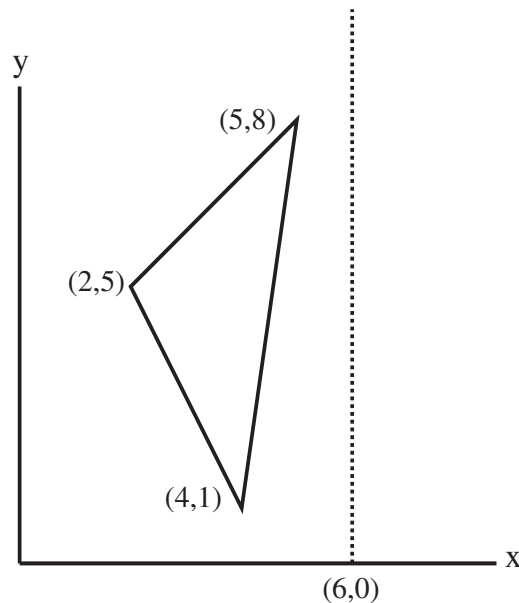
50. Look at the **square** below.



The area of the **shaded triangle** is **9 cm²**. Find the **perimeter** of the **square**. Write your answer in the space below.

_____ cm

51. The diagram below shows a **triangle**. This triangle is to be **reflected** in the **dotted mirror line**. The **dotted line passes through the point with coordinates (6 , 0)** and is **parallel to the y axis**. Each of the **3 vertices** of the triangle is reflected to give **3 new points**. These are joined to form a **new triangle**.



Complete the table below by writing in the **coordinates** of the **vertices** of the new triangle. Two vertices have been done for you.

Vertex	Reflected Vertex
(5 , 8)	(7 , 8)
(2 , 5)	(10 , 5)
(4 , 1)	

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