

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

CEA

Common Entrance Assessment

Paper 3

Saturday 3 December 2011

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	(2)		
3	(3)		
7	(1)		
8	(5)		
9	(2)		
13	(3)		
14	(4)		
15	(1)		
19	(3)		
20	(3)		
21	(2)		
TOTAL 32			

NOT TO BE FILLED IN BY THE PUPIL			
ENGLISH			
Page	Marks	Score	Check
4	(2)		
5	(5)		
6	(3)		
10	(1)		
11	(3)		
12	(1)		
16	(1)		
17	(3)		
18	(4)		
22	(1)		
23	(5)		
24	(3)		
TOTAL 32			
TOTAL SCORE			

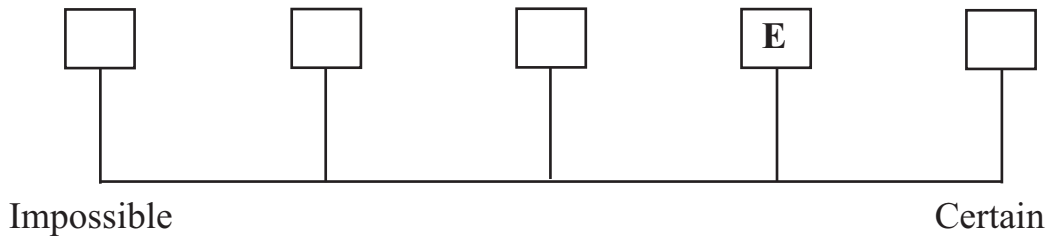
4. Look at the **6 cards** below. **Each card** has a **number** on it.



The cards are placed in a box and the **box is shaken** so that the **cards get mixed** up. I choose a card **at random** and read the number on it. Look at the following five statements:

- A. The number is **greater than 9**.
- B. The number is **negative**.
- C. The number is a **prime** number.
- D. The number is **less than 20**.
- E. The number is **even**.

Write the letters **A** to **E** in the correct box on the probability line below. One has been done for you.



5. Look at the **5 distances** below.

1.2 m 117 cm 130 cm 1.18 m 95 cm

Write these distances in order **from shortest to longest**. The shortest distance has been done for you.

95 cm _____ _____ _____ _____
 (shortest distance) (longest distance)

Do not write in this column

(2)

6. Andrea is making patterns from sticks. The **first three patterns** are shown below.

Pattern 1 uses **3 sticks**.

Pattern 2 uses **5 sticks**.

Pattern 3 uses **7 sticks**.



Pattern 1

Pattern 2

Pattern 3

How many sticks does Andrea need to make **Pattern 6**? Write your answer in the space below.

_____ sticks

7. For a school project, children had to **count** the **number of petals** in **7 flowers**. The number of petals on each of the 7 flowers is given below.

16 17 17 18 16 16 19

Calculate the **mean** (average) number of petals on a flower. Write your answer in the space below.

_____ petals

8. What is the **range** for the number of petals on a flower? Write your answer in the space below.

_____ petals

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If I Could See Anything

If I could see anything, anywhere in the world,
I would watch the whales as they glide under the sea,
cutting through the water and calling to one another.
I would watch as they dip in and out of the waves,
frolicking in their watery playground.

If I could see anything, anywhere in the world,
I would see the foam explode on the tips of the waves
and hear them crash around me and bring me back to earth.
I would taste the salt air on my lips
and feel the sea breeze on my face.

If I could see anything, anywhere in the world,
I would watch the sun melt into the horizon.
I would watch the stars pierce holes in the night sky.
I would watch as the world goes to sleep
and the moon smiles down on us from its heavenly place.

Anonymous

9. Look at **verse one** of the poem. Find the **word** which is **closest in meaning** to **playing**. Write your answer in the space below.

10. Look at the **four statements** below. **Based on your reading of the poem**, which **one** of the statements is **true**? Tick the correct box below.

The poet wants to visit an aquarium.

The poet wants to swim with whales.

The poet wants to hear waves crash.

The poet wants to visit a playground.

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11. Look at the **four pairs of words** below. In each pair **only one** of the words is **spelt correctly**. **Circle** the word with **the correct spelling** in each pair.

feirce fierce

soldeir soldier

greif grief

their thier

12. Which of the following **best** describes the mood of this poem?
Tick the **best** answer below.

tense

uplifting

depressing

frightening

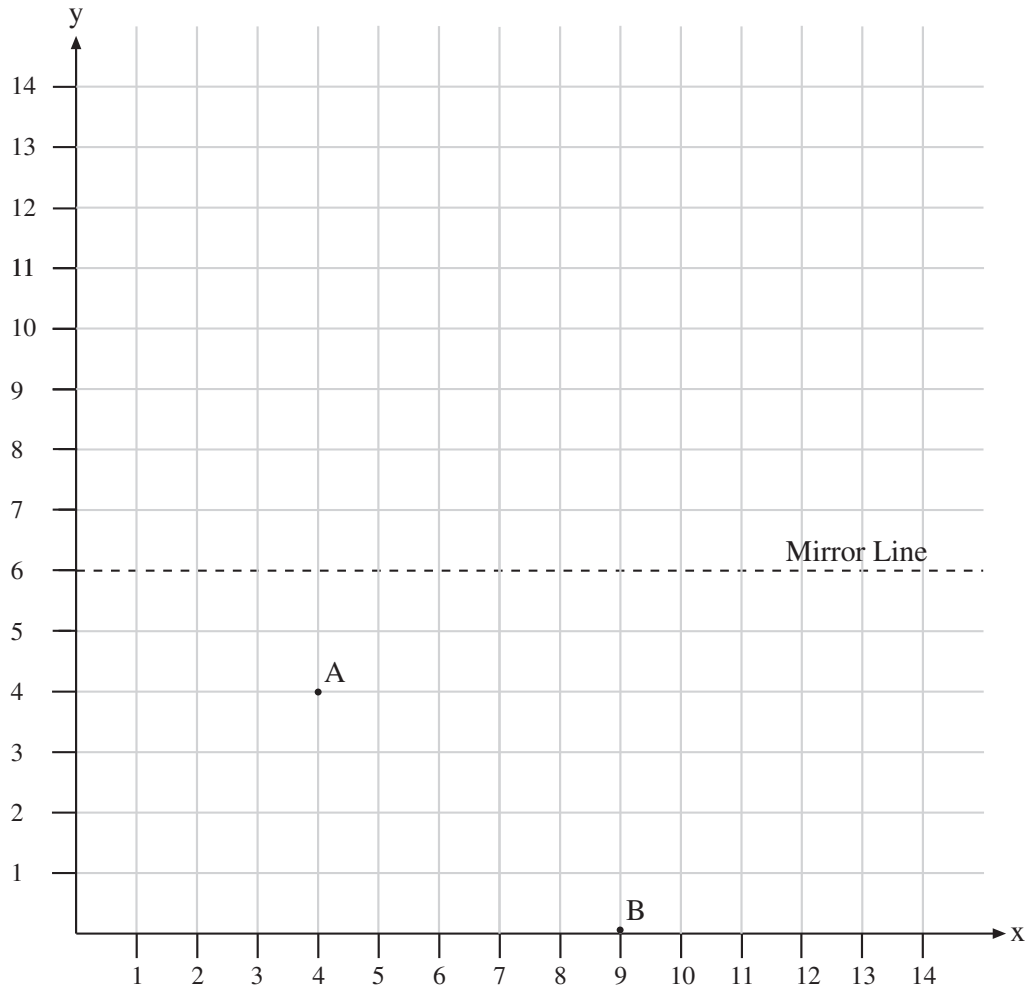
13. Look at **verse two** of the poem. All five **senses** are mentioned in this verse **except** the sense of **smell**. Find the verbs in verse two which relate to the **other four** senses. **One** has been **done for you**.
Write your answers in the spaces below.

feel

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16. In the figure below there are **two points A and B**. There is also a **mirror line**.

A is the point (4, 4).



- (a) What are the **coordinates of B**? Write your answer in the spaces below.

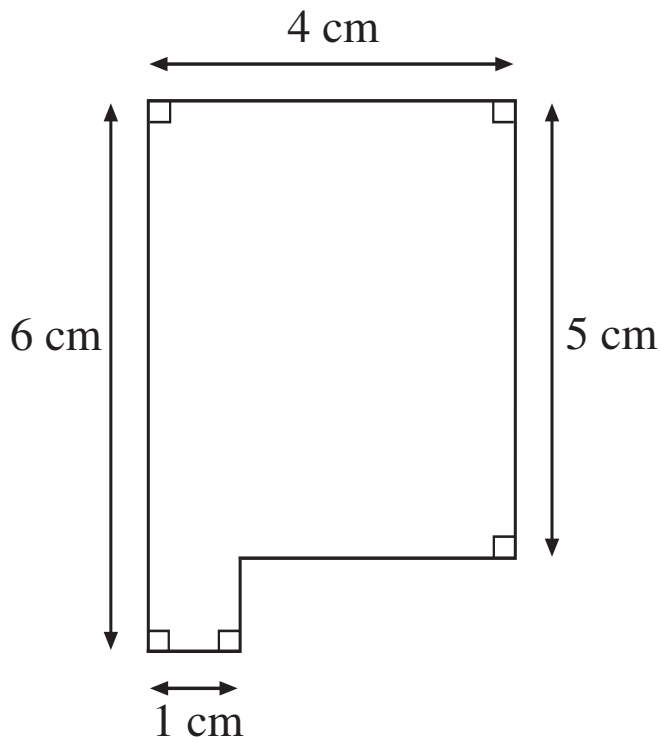
(__, __)

- (b) The point **A is reflected** in the **mirror line**. What are the **coordinates** of the **new point**? Write your answer in the spaces below.

(__, __)

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22. Look at the shape below.



Calculate the **perimeter** of this shape. Write your answer in the space below.

_____cm

23. Look again at the shape in the previous question. Calculate the **area** of the shape. Write your answer in the space below.

_____cm²

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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
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Dreaming of a White Christmas?

In December 2010 temperatures plummeted to as low as (line 1)
18 degrees below freezing in many parts of Northern Ireland. (line 2)
Thermometers measuring the countrys lowest recorded (line 3)
temperatures, night after night. Thousands of homes were (line 4)
without running water or heat for over a week. Hospitals saw (line 5)
a huge increase in the number of injured patients with broken (line 6)
and fractured bones as a consequence of ungritted, slippery (line 7)
pavements, The local councils, electric companies and (line 8)
government bodies came in for harsh criticism. (line 9)

Over 7000 UK schools were closed in the week leading up to (line 10)
the Christmas holidays. Many principals expressed grave (line 11)
concern about the number of authorised absences. (line 12)

The snowy conditions threwhout the winter have also (line 13)
had a dramatic effect upon wildlife. Did people who enjoyed (line 14)
playing in the snow and gazing at beautiful icicles (line 15)
through the window, give any thought to the (line 16)
birds, insects and animals inhabiting their gardens. The (line 17)
casualties of the extreme weather where often out of sight. (line 18)

24. Each line of the passage is numbered. There is a spelling error in one of the lines. Tick the number of the line containing the spelling error.

line 6

line 11

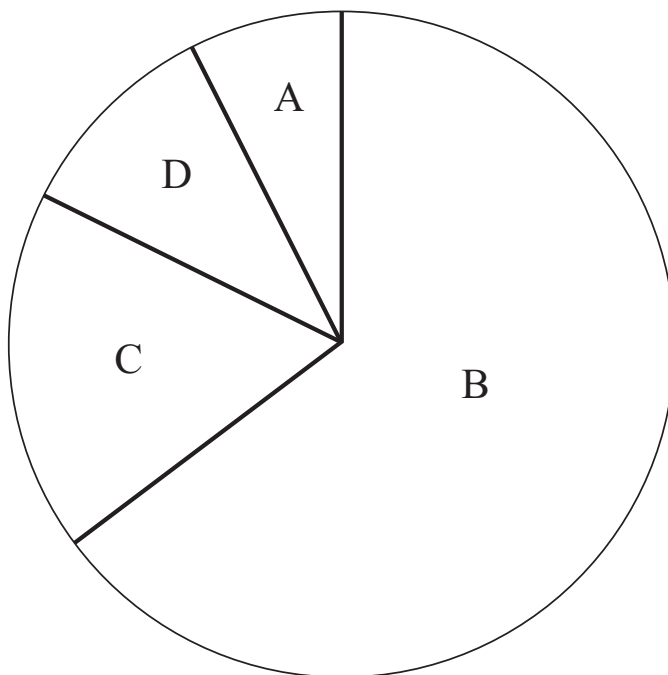
line 13

line 15

36. The human body is made up of different substances.

The table below shows the percentage of the human body made up of oxygen, hydrogen, carbon and other substances. For example, **65%** of the human body is made up of **oxygen**. **The table has some blank spaces.** To complete the table, **look at the pie chart below.** Use the pie chart to write the **correct letter** in each blank space.

Substances	Percentage of human body	Section of Pie Chart
Oxygen	65%	B
Hydrogen	10%	
Carbon	18%	
Other	7%	



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(1)	(1)

41. Look at the **four statements** below. **According to the poem, one of the statements is true.** Tick the **true** statement.

The poet doesn't like Mr Andrews because he has a boring voice.

The poet doesn't tell her mum much about the first day at school.

The poet makes the whole class laugh during the French class.

The poet doesn't recognise any of the other pupils on her first day.

42. In **verse six**, which word is closest in meaning to **inquired**? Write your answer in the space below.

43. Every new pupil receives a letter from the school prefects. Look at the **four sentences** in the letter below. In **each sentence** there are **four words highlighted**. Only **one word** is **correct**. **Circle** the correct word in each sentence.

We hope you enjoy **are** **our** **you're** **your** first day at secondary school.

We realise **are** **our** **you're** **your** probably a bit nervous.

The school prefects **are** **our** **you're** **your** here to answer any questions.

If you need **are** **our** **you're** **your** help, just call at reception.

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44. The distance between **Village A** and **Village B** is **1.6 km**. I start at **Village A** and walk **a quarter of the distance to Village B**. How far have I walked? Give your answer in **metres**. Write your answer in the space below.

_____ m

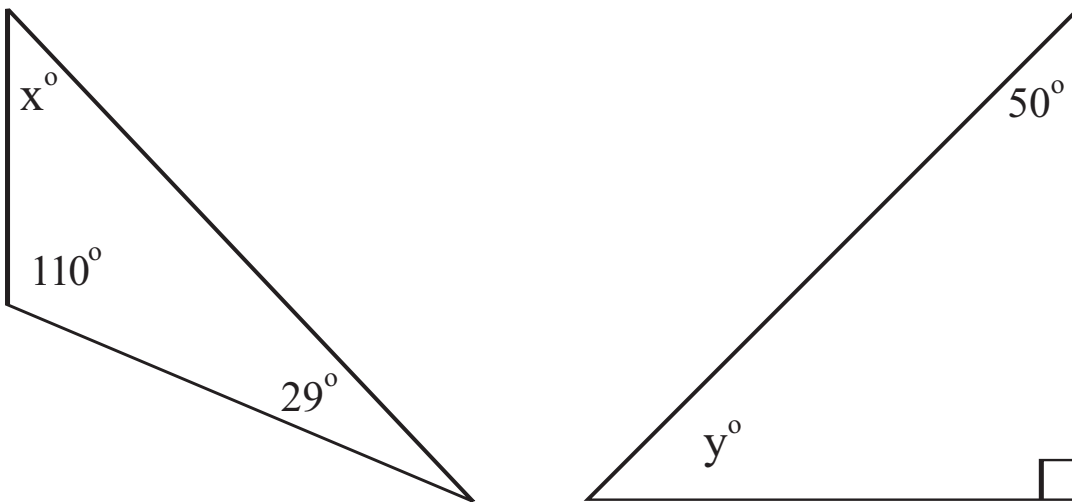
45. Below are **three statements about triangles**. **One** of the statements is **false**. Tick the **one false statement**.

Two sides of an isosceles triangle are the same length.

The angles in an equilateral triangle are all equal to 90° .

All the three angles of a scalene triangle are different.

46. Look at the triangles below



What number do you get when you **add x to y** ? Write your answer in the space below.

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50. In a quiz you get **5 points for a right** answer and you **lose 3 points for a wrong** answer. At the end of the quiz a team can have a **positive** or a **negative** number of points.

(a) At the end of the quiz, Team A has given **9 right** answers and **1 wrong** answer. **How many points** do they have? Write your answer in the space below.

_____ points

(b) At the end of the quiz, Team B has given **3 right** answers and **7 wrong** answers. **How many points** do they have? Write your answer in the space below.

_____ points

51. Team C are taking part in the same quiz. Team C **answer 10 questions**. Look at the **three scores** below. Which of these scores is **not** a possible score for Team C? **Circle** the score which is **not a possible score**.

10

41

50

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The Rower

The waves rattled over the sandy shore, rolling the shiny pebbles and billowing under the leafy lily pads that floated on the surface of the lake like a watery, green skin. Our narrow, eight-person boat drifted away from the old dock, pulling at the rough ropes that held it. Across the dock, our competitors were already seated, eight heads in a row bent as they secured their feet to the bottom of the boat.

Rebecca, the girl who sits behind me in our boat, gave my shoulders a squeeze. This was my first race. In rowing, a race is called a 'regatta' and I am the 'eight seat'. I set the pace. It's a lot of pressure: if I start rowing too quickly, my team will get tired and we'll lose; too slowly and the other boat will pull ahead and we may not be able to catch up with them.

With a deep breath, I lower myself into the thin, light boat and into my seat. I ignore the freezing cold water on either side of me, inches away, and put my feet into the special shoes stuck to the bottom of the boat. Now I'm ready. Our coach helps me lock my oar in place and wishes us luck as he pushes the boat away.

I hardly hear the race official blow her whistle to start the race, I'm so nervous. A lunge and a sudden jolt and the boat takes off, skimming the surface of the water. I close my eyes and set the pace: drop, catch, pull, twist, release. The oar broke into the water and it was rough under my hands. The other boat was left behind.

In a few minutes, we would cross the finish line. If we could keep up this pace, we would win.

Jennifer Perry

52. Look at **paragraph one**. Only **one** of the statements below is **true**. Tick the **true** statement below.

The rowing race or 'regatta' is being held at the seaside.

The competitors are standing ready on the opposite shore.

The two teams are staring across the water at each other.

There are sixteen competitors: eight rowers in each boat.

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53. Look at **paragraph two**. In this paragraph, which **noun** is **closest in meaning** to **speed**? Write your answer in the space below.

54. Look at the **four plural nouns** below. In the spaces below write the **singular form** of each of the plural nouns. The answers are **not** found in the passage. The first one is done for you. **Be careful with your spelling**.

feet foot _____

geese _____

octopuses _____

libraries _____

55. Look at **paragraphs three and four**. **Based on your reading of the passage**, when does the race **start**? Tick the **best** answer below.

The race starts when the coach pushes the boat from the dock.

The race starts when every competitor has laced their shoes.

The race starts when the official blows her starting whistle.

The race starts when all the rowers' oars are locked into place.

56. Look at **paragraph four**. Which phrase of **five or six words** tells us that the boat **does not move smoothly at first**? Write your answer in the space below.

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

True **False**

The author and Rebecca had often raced together.

The author's team is ahead at the end of the story.

The author puts on her special shoes on the shore.

58. The four words **boat**, **quickly**, **lunge** and **light** are used in the passage. Tick the correct box to show how each one has been used.

	verb	noun	adjective	adverb
boat				
quickly				
lunge				
light				

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