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

CEA

Common Entrance Assessment

Paper 1

Saturday 12 November 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

1. Look at the **number written in words** below

(4)

thirty five and a quarter

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

_____

2. **The crisps** in a **single packet** weigh **27 g**. A **multipack** contains **18 single packets**. Mark is having a party. He empties the contents of **all the packets** in a multipack **into a large bowl**. What is the **weight of crisps in the bowl**? Give your answer in **grammes**. Write your answer in the space below.

_____ g

3. Tommy goes on a bike ride. He cycles **1.5 km** before **stopping to take a break**. He then cycles **a further 600 m**. **How far** does he travel **in total**? Give your answer in **metres**. Write your answer in the space below.

_____ m

4. Eight girls counted **how many items** each one had **in her pencil case**. Maggie made a list of the numbers of items in each girl's pencil case. Look at the list below.

5   5   6   7   8   7   10   8

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

_____ items

5. Look again at the 8 numbers in **question 4**. What is the **range** of items? Write your answer in the space below.

_____ items

6. Tom is buying fish for his fish tank. He uses the rule below to work out the maximum number of fish he can keep in the tank.

Maximum number of fish = Volume of tank in litres ÷ 4

Use this rule to work out the **maximum number of fish** Tom can keep in a tank of **32 litres**. Write your answer in the space below.

_____ fish

7. Write the **number** in the box below that makes the statement **true**.

17 is [   ] % of 68

8. Kieran is **making patterns** using **square tiles**. The **first three patterns** are shown below.
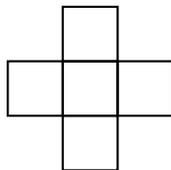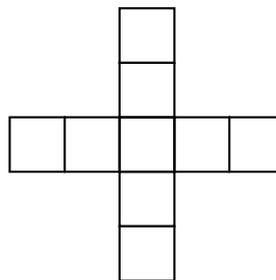
Pattern 1   Pattern 2   Pattern 3

How many square tiles does Kieran need to make **Pattern 5**? Write your answer in the space below.

_____ square tiles

(1)

Summer Goes

Summer goes, summer goes
Like sand between my toes when the waves go out.
That's how summer pulls away,
Leaves me standing here today,
Waiting for the school bus.

Summer brought, summer brought
All the frogs that I have caught,
Frogging at the pond,
Hot dogs, flowers, shells and rocks,
Postcards in my postcard box -
Places far away.

Summer took, summer took
All the lessons in my book,
Blew them far away.
I forgot the things I knew -
Arithmetic and spelling too,
Never thought about them.

Summer's gone, summer's gone -
Fall and winter coming on,
Frosty in the morning.
Here's the school bus right on time.
I'm not really sad that I'm
Going back to school.

Russell Hoban

9.   Look at **verse two** of the poem. Complete the **two statements below** by writing **a word** in each blank space.

caught   rhymes with   _____

rocks   rhymes with   _____

10. This poem is about the **end of a season**. Which season? Tick ☑ the correct box below.

Summer ☐

Spring ☐

Autumn ☐

Winter ☐

11. In **verse one** of the poem, what does the poet **compare** the passing of summer to? Look at the answers below and tick ☑ the **best** answer.

standing about in the school holidays ☐

the sand that was once between his toes ☐

waiting for a bus to take him to school ☐

12. Look at **verse four** of the poem. Which phrase of **three words** tells us that the bus is **punctual**? Write your answer in the space below.

_____

13. Only **one** of the **three statements** below is **true**. Tick ☑ the true statement.

The poem is about:

the poet's homeworks being blown away. ☐

the poet's travels during the summer break. ☐

the poet's thoughts about summer ending. ☐

Do not write in this column

(4)

14. An **apostrophe** is used in **four** different words in this poem. For each of these words write the **two words** that mean the same as the word containing the apostrophe. **Be careful with your spelling.** The first one has been done for you.

Summer's   <u>Summer is</u>

That's   _____

Here's   _____

I'm   _____

15. The **four words** below are **used in the poem**. Write the **plural of each word** in the space below. One has been done for you. **Be careful with your spelling.**

bus   <u>buses</u>

pond   _____

box   _____

book   _____

(4)

16. Anna, Billy and Carla are playing a **computer game**. In the game, for every **75 points** you collect you are given a **star**.

(a) Anna has enough points for **4 stars**. **How many points** has she collected? Write your answer in the space below.

_____ points

(b) Billy has **45 points**. Carla has **5 stars**. How many **more** points has Carla than Billy? Write your answer in the space below.

_____ points

17. Donal and Brenda are playing the **same** computer game.

(a) Donal collects **225 points**. **How many stars** is he given? Write your answer in the space below.

_____ stars

(b) When Brenda finishes her game she needs **37 points** to get her **first star**. **How many points** has she collected? Write your answer in the space below.

_____ points

18. Look at the **three numbers** below. All three numbers are **multiples** of **the same number**. **What is that number**? Write your answer in the space below.

14   35   77

_____

19. There are **36 little chocolate bars** in a **box**. In the box there are:

   9   **Maltesers** bars
  18   **Mars** bars
   2   **Galaxy** bars
   3   **Snickers** bars
   4   **Milky Way** bars

I choose a bar at random from the box. Look at the statements below. Tick ☑ each statement **true** or **false**. The first one is done for you.

	True	False
The chance that the bar is a Bounty bar is zero.	☑	☐
The chance that the bar is a Milky Way bar is $^1/_4$.	☐	☐
The chance that the bar is a Mars bar is an even chance.	☐	☐

20. Abby travels by car from **Belfast to Downpatrick**. She **leaves Belfast at 12:45 pm** and **arrives** in Downpatrick **52 minutes later**. **At what time** does she **arrive**? Give your **answer using** the **24 hour clock**. Write your answer in the space below.

_____

21.

(a) A small school has **5 classes**. **Each class** has **24 pupils**. On Monday all the pupils are **brought together** in the playground. They are then **divided up into groups**. There are **10 pupils in each group**. **How many groups** are there? Write your answer in the space below.

_____ groups

(b) On Tuesday the **5 classes** are **brought together**. Again they are divided into groups. This time there are **15 pupils in each group**. **How many groups** are there? Write your answer in the space below.

_____ groups

(3)

22. Look at the diagram below. A **large square** is made up of **4 smaller squares**. All the **smaller squares** are the **same size**. Each **side** of the **large square** is **6 m long**. Each **side** of a **smaller square** is **3 m long**. **What is the area** of the **shaded part** of the large square? Write your answer in the space below.
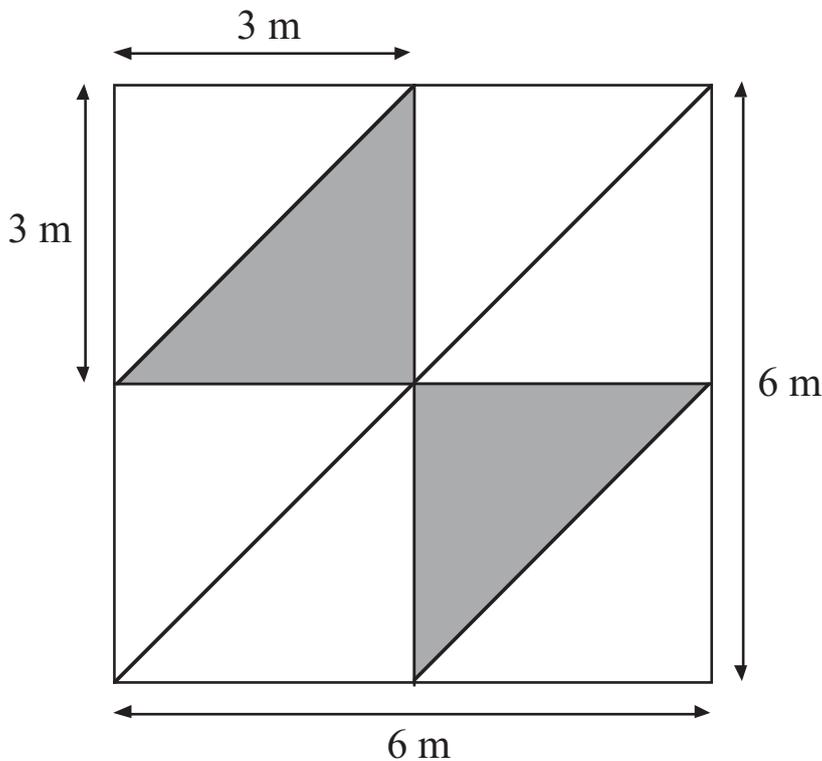
_____ m²

23. Look at the number below

36.27

What is the value of the **3 digit** in this number? Tick ☑ the correct box below.

Three tens ☐

Three units ☐

Three tenths ☐

Three hundredths ☐

(2)

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

The School Play

This years school play was "The Wizard of Oz". The show's	(line 1)
renewed popularity following the BBC's "Over the Rainbow"	(line 2)
drew large numbers to auditions.	(line 3)
The cast of junior and senior pupils put on a show better	(line 4)
than any professional production in my experience.	(line 5)
The youngest pupils, in the roles off flying monkeys and	(line 6)
munchkins, provided much entertainment and amusement.	(line 7)
The two witches who were played by the Smith twins,	(line 8)
were outstanding, Particular praise, however, must go to the	(line 9)
actors in the principle parts: Dorothy (Anna McGowan) and	(line 10)
her friends. The acting, singing, and dancing were of Broadway	(line 11)
standard.	(line 12)
Congratulations to the cast and crew for an engaging and	(line 13)
emotive production. Who can resist a tear as Dorothy says	(line 14)
goodbye to Lion, Scarecrow and Tinman as her time on Oz	(line 15)
draws to a close.	(line 16)

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 3 ☐

line 7 ☐

line 10 ☐

line 13 ☐

25. A word has been used incorrectly in the passage. Tick ☑ the number of the line where the error was made.

line 4 ☐

line 6 ☐

line 8 ☐

line 13 ☐

(3)

26. 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 5 ☐

line 7 ☐

line 14 ☐

line 16 ☐

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 1 ☐

line 7 ☐

line 8 ☐

line 11 ☐

(3)

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 6 ☐

line 7 ☐

line 8 ☐

line 9 ☐

29.

(a) Alison is **136 cm tall**. James is **18 cm taller** than Alison.
How tall is he? Write your answer in the space below.

———————— cm

(b) Nadine is **152 cm** tall. Rob is **half of** Nadine's height.
How tall is he? Write your answer in the space below.

———————— cm

30. Maeve's height is exactly **half way between Alison's height and Nadine's height**. **How tall is Maeve**? Write your answer in the space below.

———————— cm

31. Look at the **four numbers** below. **Circle** the **two numbers** which **add to give 8.83**

2.92   4.24   4.59   4.91

32. John's cat eats **600 g of food each day**. **How much food** does it eat **in the month of June**? Give your **answer in kilograms**. Write your answer in the space below.

———————— kg

(4)

33. The **bar chart below** shows **how many top ten singles** certain singers had in 2010. For example, **Cheryl Cole had 4 top ten singles** in 2010. Use this bar chart to answer the questions below.

(a) **Which singer** had the **most top ten singles**? Write the **name** of the singer in the space below.

_____

(b) **Which singer** had the **fewest top ten singles**? Write the **name** of the singer in the space below.

_____

34.

(a) Look again at the bar chart of top ten singles. **Which singer** had **more** top ten singles than **Cheryl Cole** but **fewer** top ten singles than **Rihanna**? Write the **name** of the singer in the space below.

_____

(b) **How many** top ten singles did **all 6 singers have in total**? Write your answer in the space below.

_____ top ten singles

(2)

35. A map has the following scale:

1 centimetre represents 4 kilometres

The distance between two villages is **8 cm on the map**. What is the **actual distance** between the villages? Write your answer in the space below.

_____ km

36. A motorway is **42 km long**. A **red line** on the map **represents the motorway**. **How long** is the **red line**? Write your answer in the space below.

_____ cm

The Shark

He seemed to know the harbour,
So leisurely he swam;
His fin
Like a piece of sheet-iron,
Three-cornered,
And with a knife-edge,
Stirred not a bubble
As it moved
With its base-line on the water.

His body tubular
And tapered
And smoke-blue,
And as he passed the wharf
He turned,
And snapped at a flat-fish
That was dead and floating.
And I saw the flash of a white throat,
And a double row of white teeth,
And eyes of metallic grey,
Hard and narrow and slit.

Then out of the harbour,
With that three cornered fin,
Shearing without a bubble the water
Lithely,
Leisurely,
He swam –
That strange fish,
Tubular, tapered, smoke-blue,
Part vulture, part wolf,
Part neither – for his blood was cold.

E.J. Pratt

37.   **Four animals** are mentioned **in the poem**. One is the **shark**.
Write the **names** of the **other three** in the spaces provided.

_____

_____

_____

38.   Look at **verse three.** Which **word** in this verse is closest in meaning
to **cutting**? Write your answer in the space below.

_____

39.   Look at the **first verse** of the poem. **Based on your reading** of the
first verse, why does the poet believe that the shark is familiar with the
harbour? Look at the **three answers** below. Tick ☑ the **best** answer.

The poet has seen the shark there before.   ☐

The shark is swimming in a leisurely way.   ☐

The shark's fin is like a sheet of iron.   ☐

40.   **One** of the statements below is **true**.   Tick ☑ the **true** statement.

In **verse 1** the shark's fin cannot be seen above the water.   ☐

In **verse 2** the shark kills a floating flat-fish and eats it.   ☐

In **verse 3** the poet describes the shark leaving the harbour.   ☐

(4)

41. The four words **row, floating, lithely**, and **tubular** are used in **verses two and three** of the poem. Tick ☑ the correct box to show whether each one has been used in the poem as a **verb**, **noun**, **adjective** or **adverb**.

	verb	noun	adjective	adverb
row				
floating				
lithely				
tubular				

42. The word **swam** is used in the poem. It is the **past tense** of **swim**. Write the past tense for each of the words below in the space provided. One is done for you. **Be careful with your spelling**.

drink   <u>drank</u>

hope   _____

sleep   _____

stagger   _____

43. Look at the **three words** below. Look at **verses two and three** of the poem and find the word **opposite in meaning** to each of the three words. Write each word in the space provided.

sinking   _____

soft   _____

hot   _____

(6)

44. Rosie spent **one quarter of an hour** doing her English homework. Then she spent **one third of an hour** doing her mathematics homework. **How many minutes** did she spend **altogether** doing her homework? Write your answer in the space below.

_____ minutes

45. Patrick won **£50,000** in a lottery. He gave **half** of the money to charity. Then he divided the **remaining** money **equally between** his **two** children. **How much** money did **each** child receive? Write your answer in the space below.

£_____

46. Look at the grid below. It will help you answer the question below.
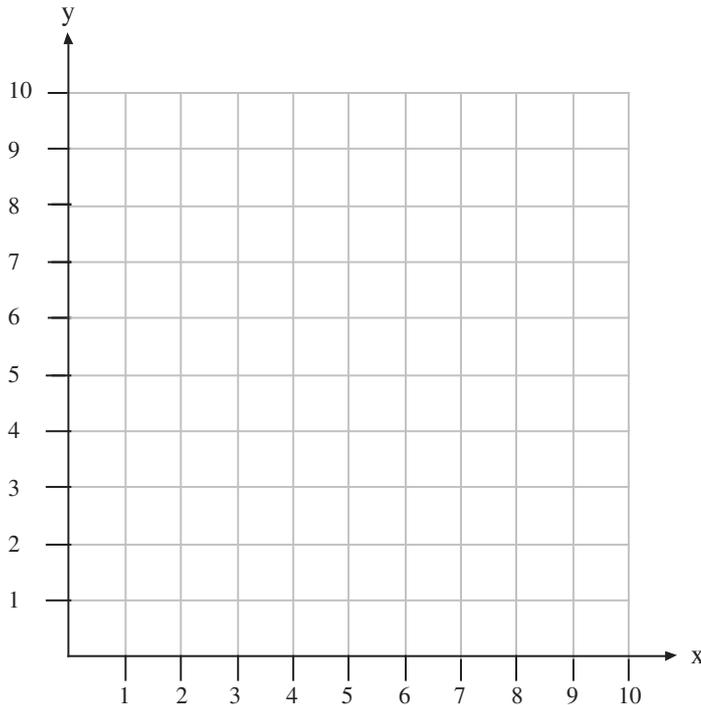
A **line** is **drawn from** the point **(2, 3) to** the point **(8, 7)**. What are the **coordinates** of the **point halfway along this line**? Give your answer by **writing a number** in **each** of the **spaces** below.

(___ , ___)

(3)

47. Sarah measured an angle. The angle was **bigger than two right angles** but **smaller than three right angles**. Look at the three angles below. **Which** of these three angles **could be the angle** that Sarah measured? Tick ☑ the correct answer.

177º ☐

267º ☐

357º ☐

48. A **brick** is in the shape of a **cuboid**. The **volume** of each brick is **120 cm^3**. **Some bricks** are arranged to **make the object shown below**. This **object** is also a **cuboid**.
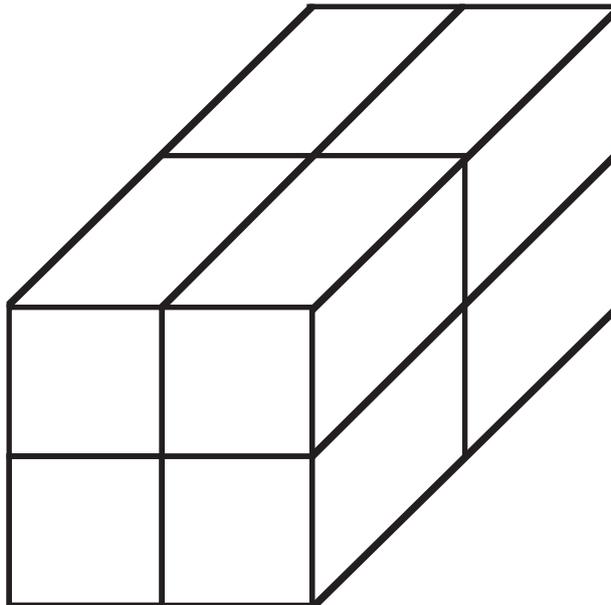
Find the **volume** of the **object**. Write your answer in the space below.

_____ cm^3

(2)

49. Look at the **7 shapes** below.

A   B   C   D

E   F   G

Which **shape** is a **reflection** of **shape C**? **Circle** the correct **letter** below.

      A   B   C   D   E   F   G

50. Look again at the shapes above. **Which two** shapes have **more than** one **line of symmetry**? **Circle** the correct **letters** below.

      A   B   C   D   E   F   G

51. Look again at the shapes above.

(a) **How many lines of symmetry** does **shape G** have? **Circle** the correct answer below.

      None   1   2   3   4

(b) **How many lines of symmetry** does **shape A** have? **Circle** the correct answer below.

      None   1   2   3   4

Extract from the story **Badger on the Barge**

The barge was moored by the towpath. Although she quite often came by the canal on her way from school, she had never seen it there before. Or perhaps it was just that she had not come by the canal for a long time. Frowning, she tried to remember.

The boat was long and low, and brightly painted. The hull was black, with green rubbing strakes and a red gunnel. The panels on the cabin sides were painted with roses – four flowers making a diamond shape. A striped green and red pole stuck out of the end. From a distance it looked like a picture in a book, but close to, Helen saw that some of the paint was peeling, and there was a heap of dirty straw on the small semi-circular poop-deck.

A plank led from the towpath to the deck, but Helen was not sure what to do. She could see the little cabin door with roses painted on it, but was not sure she should go aboard. Crouching, she tried to see in through the windows, but the curtains were drawn.

Everything was quiet on the black water of the canal. The sun hung like a red balloon in the branches of the horse-chestnut tree. Only a swan came sailing, leaving a wake of ripples, from under the bridge. It was white on the water, all alone.

"Here, Cobbler! Here, cob, cob, cob … Here, Cobbler!" called a voice from the barge.
"There's a good fellow. There's a grand lad." It was an old voice. The barge rocked gently as someone moved inside.

Helen stepped back. A thin, yellow arm and hand appeared through a window on the far side of the boat. The swan arched its neck. A few scraps of bread floated towards him and he clicked at them with his yellow beak. Wagging his tail feathers, he glided out of sight behind the barge.

Janni Howker

52. Only **one** of the following statements is **true**. Tick ☑ the **true** statement.

The swan is called Wake. ☐

The swan is called Fellow. ☐

The swan is called Cobbler. ☐

53. Look at **paragraph two**. Tick ☑ the **two** statements below that **best** describe the appearance of the barge.

The barge is painted with bright colours. ☐

Some of the paint on the barge is peeling. ☐

Each of the panels has five painted roses. ☐

The gunnel on the barge is painted black. ☐

54. Which **phrase** of **three or four words** in **paragraph three** tells us why Helen cannot see into the barge. Write your answer in the space below.

_____

55. What **word** describes the **atmosphere** in **paragraph four**? Tick ☑ the **best** answer below.

chaotic ☐

calm ☐

wintry ☐

bustling ☐

Do not write in this column

(4)

56. Look at the three words below. **Based on your reading of paragraph three**, which word **best** describes **Helen's behaviour**? Tick ☑ the **best** answer below.

decisive ☐

frantic ☐

uncertain ☐

57. Put the following words in **alphabetical order**. Write your answers in the spaces below. The first word has been done for you.

book　　**boat**　　**cabin**　　**branches**　　**barge**

barge　　———　　———　　———　　———

58. In the passage the writer says that the barge looked "**like a picture in a book**". This is an example of a **simile**.

Find another example of a **simile** in the passage. Write the phrase of **four words** in the space below.

_____

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