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

## CEA

## Common Entrance Assessment Sample Paper

 Time: 1 HourPlease note that this paper has been produced to help candidates for the CEA and their parents familiarise themselves with the format of the CEA papers and style of the questions. It has not been subjected to the same rigorous quality control process as the actual CEA papers.

Please fill in the following from your admission card:

Your Candidate Number $\qquad$

Your Assessment Centre $\qquad$

Your Date of Birth

Answer all 58 questions in this booklet

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## Page 1

1. Look at the number written in words below.

## Thirteen and a half

What is this number as a decimal number?
Write your answer in the space below.
$\qquad$
2. What is $75 \%$ as a fraction? Write your answer in the space below.
3. Look at the four numbers below. Tick $\checkmark$ the number in which 8 stands for 8 tenths.
7138.52
7135.82
7153.28
7185.32


7
$\square$

4.(a) Add 67561 and 94272 . Write your answer in the space below.
(b) Subtract 67561 from 94272 . Write your answer in the space below.
5. Look at the eight numbers below. Put a circle around each prime number in the list.
$\begin{array}{llllllll}2 & 6 & 11 & 13 & 15 & 20 & 23 & 27\end{array}$

## Page 2

6. Look at the eight numbers below. Put a circle around each square number in the list.
```
7
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7. The table below shows the maximum and minimum temperatures over a weekend. Calculate the difference between the maximum and minimum temperatures for Saturday and Sunday. Write your answers in the boxes provided.

| Day | Maximum <br> Temperature | Minimum <br> Temperature | Difference |
| :---: | :---: | :---: | :---: |
| Saturday | $16^{\circ} \mathrm{C}$ | $3{ }^{\circ} \mathrm{C}$ | ${ }^{\circ} \mathrm{C}$ |
| Sunday | $22^{\circ} \mathrm{C}$ | $-5^{\circ} \mathrm{C}$ | ${ }^{\circ} \mathrm{C}$ |

8. If $13+\mathrm{p}=21$, what is the value of $\mathrm{p}+7$ ?

Write your answer in the space below.

## Page 3

## A Place called Orkney

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Do you know a place called Orkney?
Where the town only whispers,
And the mountains don't utter a word.
Where the sea is as clear as glass,
But blue like the cloudless sky.
With fish, eels, crab and lobster,
Shipwrecks and barriers of stone?
The bottomless depths are perilous,
Where few boldly go.
Do you know about the standing stones?
That baffle the scientists,
Scanning the circle of mystery.
Adapted from A Place called Orkney by Adam Purvis
9. Look at the statements below. Decide whether each of the following statements are true or false. Base your answer on the information in the poem. Tick $\sqrt{ }$ each statement true or false.

Orkney is a place which is very noisy.
True
False


The sea is a very safe place.
Scientists know why the standing stones were placed there.
10. Find the word in the poem closest in meaning to each of the words below. Write your answer in the space provided.
transparent $\qquad$
dangerous $\qquad$
confuse $\qquad$

## Page 4

11. The following four words are used in the poem: utter, shipwreck, boldly and perilous. Tick $\square$ the correct box in the table below to show which of the four words is used as an adjective, a verb, a noun or an adverb.

|  | Adjective | Verb | Noun | Adverb |
| :--- | :--- | :--- | :--- | :--- |
| utter |  |  |  |  |
| shipwreck |  |  |  |  |
| boldly |  |  |  |  |
| perilous |  |  |  |  |

12. What does the poet mean by 'the town only whispers'? Base your answer on the information in the passage. Tick $\square$ the correct answer.

He means that everyone in the town speaks quietly.


He means that the town is a peaceful place.
He means that there are no noisy people allowed into the town.

13. The poet describes the sea as having barriers of stone. What do you think he is describing here? Base your answer on the information in the poem. Tick $\square$ the best answer.

He is describing the waves of the sea being strong as stone.


He is describing the rocks which surround Orkney.

14. Which two words does the poet use to describe the water?

Tick $\square$ the best answers.

Clear


Blue
Cloudless


## Page 5

15. Which one of the following titles could be used as a suitable alternative title for this poem? Tick $\checkmark$ the best answer.

The Lighthouse
A Fisherman's Tale
A place by the sea

Do not write in this column


## Page 6

16. Alice bought a dress in the sale. The price of the dress before it was put in the sale was $£ 68$. This price was reduced by $20 \%$ in the sale. How much did Alice pay for the dress? Write your answer in the space below.
$\qquad$
17. Flour costs $£ 1.40$ per kilogram. What is the cost of 250 g of flour? Write your answer in the space below.
$\qquad$
18. Milk costs $£ 1.12$ per litre. What is the cost of 25 litres?

Write your answer in the space below.
$\qquad$
19. Ribbon costs $£ 3.50$ per metre. What is the cost of 120 cm of ribbon?

Write you answer in the space below.
20. John goes to bed at 21:43. He sleeps for 8 hours and 25 minutes. At what time does he wake up? Write your answer in the space below.
$\qquad$

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$\qquad$
rite your answer in the space below.

## Page 7

21. A bag contains coloured counters. In the bag there are ten counters.

Here are the number of counters of each colour in the bag:

5 blue
3 red
1 yellow
1 brown

Claire cannot see into the bag. She picks a counter from the bag. What is the probability of picking a blue counter? Give your answer by circling the correct fraction below.
$1 / 5$
$5 / 1$
$10 / 5$
$1 / 2$
22. In a primary school class $40 \%$ of pupils play football, $25 \%$ play basketball, and the rest swim. The number of pupils who play basketball is 5 . How many pupils are there in the class?
Write your answer in the space below.
$\qquad$ pupils
23. How many pupils swim? Write your answer in the space below.
pupils

The passage you are about to read contains four errors and two words are missing. Read the passage and then answer the questions that follow it.

Crest College would like to invite you and your family to a
Line 1 special open evening on monday January 13th at 8 pm . Every department in the college will be represented and you will have a chance to speak to teachers and students who will be only too happy to answer your questions about our school. There will also be a special area where you can find out about the many clubs and societies on offer for new students. Therefore, wheather your interest is football or fitness, we are sure you will find something to suit you here. If you need something to eat or drink our modern canteen will provide hot and cold snacks and beverages during the evening.
Do you have any further questions. If the answer is yes then please contact us at the college. We $\qquad$ happy to Line 2 answer any questions you might have. We look forward to seeing you on our open night. There is ample parking spaces and the college is easily reached by public transport.
24. In which line has a question mark been left out? Tick $\square$ the number of the line in which a question mark has been left out.

Line 2
Line 6
Line 13
Line 14


- $\square$

25. There is a spelling error in one of the lines of the passage. Tick $\square$ the number of the line containing the spelling error.

Line 1


Line 8
Line 11
Line 15

26. The word 'is' has been incorrectly used in the passage. Tick $\checkmark$ the number of the line containing the incorrect use of 'is'.

Line 8
Line 13
Line 16
Line 17 $\square$
27. A capital letter is needed for a word on one of the lines. Tick $\square$ the number of the line with the word needing a capital letter.

Line 2 $\square$
Line 4
Line 9
Line 16
$\square$

## Page 10

29. Complete the number statements below by writing the missing number in the space provided.
$108 \times 482=216 \times$ $\qquad$
$432 \div 16=$ $\qquad$ $\div 8$
$736-418=536-$ $\qquad$
30. A plan of Sean's bedroom is shown in the diagram below. The Key tells you where Sean's wardrobe is and which parts of his bedroom are carpeted. Calculate the area of Sean's room which is carpeted. Give your answer in $\mathrm{m}^{2}$. Write your answer in the space below.

$\qquad$ $\mathrm{m}^{2}$

Do not write in this column

31. Look at the diagram below. The triangle ABC is an isosceles triangle. Angles A and C are equal. The angle at A is $65^{\circ}$. What is the size of the angle at B? Write your answer in the space below.


Angle at $\mathrm{B}=$ $\qquad$ o
32. Look at the four types of angle below. What type of angle is $65^{\circ}$ ? Select one of the four types of angle by ticking $\checkmark$ the box.

Acute angle


Obtuse angle $\square$
Reflex angle
Right angle $\square$
33. Look at the Venn diagram below. Some numbers are written on the Venn diagram. Where would the number twenty go on the Venn diagram? Give your answer by writing 20 in the correct place on the Venn diagram.


Page 13
34. Look at the function machine below. Use the function machine to write the missing numbers in the table below.


| IN | OUT |
| :---: | :---: |
| 4 |  |
| 8 |  |
|  | 7.5 |

35. The number of minutes taken by nine pupils to complete a puzzle is given below:
$\begin{array}{lllllllll}3 & 3 & 6 & 6 & 6 & 7 & 5 & 3 & 6\end{array}$

What is the mean time to complete the puzzle? Write your answer in the space below.

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## Page 14

## Dr. Lee's Coloured Fish

Twelve golden, white and black carp swimming in the filtered water of a tank beside my still head, spurting up for food or scattering like birds startled by a sound.
Brought as bright hand-luggage on the plane from Singapore: now they turn to and fro, hardly pausing, and then only to direct movement.

## John Dickson

37. What three colours are used to describe the fish? Write your answers in the spaces below.
$\qquad$ and $\qquad$ and $\qquad$
38. Write the five words below in alphabetical order in the spaces provided. The first one has been done for you. swimming spurting scattering startled Singapore
39. scattering
40. $\qquad$
41. $\qquad$
42. $\qquad$
43. $\qquad$
44. Find the word closest in meaning to each of the words below. Each word you're searching for appears somewhere in the poem. Write your chosen word in the space provided.
quiet
surprised
motion
$\qquad$
$\qquad$
$\underline{\square}$
45. Based on your understanding of the poem, circle the best word or best pair of words to complete the sentences below:

The poet is describing a filter suitcase container holding a couple a few a dozen one fish that are sleeping motionless darting floating in the water.
41. The following four words are used in the poem: carp, still, hardly and direct. Tick $\checkmark$ the correct box in the table below to show which of the four words is used as an adjective, a verb, a noun or an adverb.

|  | Adjective | Verb | Noun | Adverb |
| :--- | :--- | :--- | :--- | :--- |
| carp |  |  |  |  |
| still |  |  |  |  |
| hardly |  |  |  |  |
| direct |  |  |  |  |

42. To which other animal is the movement of the carp compared? Write your answer in the space below.
43. Find two words that the poet uses to describe the sudden movement of the fish. Write your answers in the space below.
44. When two numbers are added together the answer is 26 . When the smaller number is subtracted from the larger number, the answer is 4 . What are the two numbers? Write your answer in the spaces below.
$\qquad$ and $\qquad$
45. What percentage of 165 is 55 ? Write your answer in the space below.
$\qquad$ \%
46. Look at the four numbers below.
$\begin{array}{llll}1086 & 10.86 & 108.6 & 1.086\end{array}$
The answer to the calculation below is one of these four numbers.
Write the number you have chosen in the space below.
When you multiply 0.9 by 114 and then add 6 you get
47. Find the first number in the sequence below. Write your answer in the space provided.
$\qquad$ $\begin{array}{lll}9.5 & 10.2 & 11.0\end{array}$
11.9
48. Look at the four fractions below. Circle the fraction nearest in value to 0.5 .

5/6
5/12
$3 / 4$
$2 / 3$
49. Look at the dates of birth of five pupils:

Paul
Sinead
Fiona
Richard
13th June 2001

Caroline
21st April 2000
24th March 2001
11th August 2000
1st May 2001
Who is oldest? Write the oldest pupil's name in the space below.
50. In each stage of a relay race the runner must cover a distance of $1 / 6$ of a kilometre. Each runner runs one stage only. The total distance to be covered in the race is $2 / 3$ of a kilometre. How many runners are needed? Write your answer in the space below.
$\qquad$ runners
51. Look at the octagon in the grid below. Each square in the grid has sides of length 1 centimetre. What is the perimeter of the octagon? Choose one of the answers below by ticking $\checkmark$ the box.


The perimeter is 8 cm
The perimeter is less than 8 cm
The perimeter is more than 8 cm
$\square$


## Page 18

## Hauntingdale

Ross, his best friend from college days, had always invited him to visit. "Hauntingdale" was a tranquil and secluded spot and would be perfect to give him inspiration for his novel.

The flight from New York to Heathrow was uneventful. When he arrived in London he studied the email which laid out the directions for "Hauntingdale". The directions were vividly described and Ryan felt confident when he boarded the train on platform three with his two cases, his holdall and a camera strapped over his shoulder. "Typical American tourist!" he mused.
The train stopped eventually at the village and he got out. It was dusk. He stepped into the only taxi outside the station and said tersely: "Hauntingdale Manor, please." The driver made no reply and simply nodded his head. The road from the station appeared remote and isolated. The taxi to the Victorian manor moved like a hearse through the large iron gates. "Hauntingdale" was inscribed on the entrance and the image reminded Ryan of the entrance to the concentration camps in Europe.

The big house was stark and gloomy. The gargoyles fixed their stare on him as he stepped gingerly through the creaking and open front door. No Ross, just a solitary note of apology saying that he had been called to London. "Forgive me, buddy. I didn't choose to go myself. Make yourself at home and I will be with you shortly."

## Adapted from Hauntingdale by Leah Rea

52. Look at the statements below.

Decide whether each of the following statements are true or false. Base your answer on the information in the passage. Tick $\sqrt{ }$ each statement true or false.

True False

Ryan was a regular visitor to Hauntingdale.
Ryan is an American.
Ross left Ryan several notes.


## Page 19

53. Complete the following sentences by circling the word that fits best:

Hauntingdale was a modern gloomy pretty house.
Ross instructed the taxi driver quietly loudly quickly.
"Typical American tourist!" he laughed thought said whispered.
54. Find the word closest in meaning to each of the statements below. Write the word in the space provided. The first word is in the first paragraph, the second word is in the second paragraph and the third word is in the third paragraph.
education institution $\qquad$
mounted
twilight
55. The following four words are used in the passage: perfect, vividly, entrance and forgive. Tick $\square$ the correct box in the table below to show which of the four words is used as an adjective, a verb, a noun or an adverb.

|  | Adjective | Verb | Noun | Adverb |
| :--- | :--- | :--- | :--- | :--- |
| perfect <br> (used in paragraph 1) |  |  |  |  |
| vividly <br> (used in paragraph 2) |  |  |  |  |
| entrance <br> (used in paragraph 3) |  |  |  |  |
| forgive <br> (used in paragraph 4) |  |  |  |  |

56. Where would you normally find a passage such as "Hauntingdale"? Tick $\checkmark$ the best answer.

In an encyclopaedia


In a dictionary


In a novel
In a diary
57. The word "gingerly" is used in the final paragraph of the passage. Tick $\sqrt{ }$ the word closest in meaning to gingerly.
happily
quickly

cautiously
loudly
58. Why did Ross ask Ryan to forgive him? Tick $\boxed{\checkmark}$ the best answer.

He and Ryan had been fighting.
He had forgotten about Ryan's visit.
$\square$

He had told a lie and really lived in London.
He was not there to welcome his friend. $\square$

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Page 22

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