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

# CEA

### **Common Entrance Assessment**

## **Sample Paper**

### Time: 1 Hour

Please 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 \_\_\_\_\_

Your Assessment Centre

Your Date of Birth

#### Answer all 58 questions in this booklet

Association for Quality Education Limited

NOT TO BE FILLED IN BY THE PUPIL MATHEMATICS				
Page	Marks	Score	Che	ck
TOTAL				

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Page	Marks	Score	Che	ck
TOTAL				
TOTAL SCORE				

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.

- 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	

- 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.
  - 2 6 11 13 15 20 23 27

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6. Look at the eight numbers below. Put a circle around each square number in the list.

7 9 10 12 25 27 40 49

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 Temperature	Minimum Temperature	Difference
Saturday	16°C	3°C	°C
Sunday	22°C	-5°C	°C

8. If 13 + p = 21, what is the value of p + 7? Write your answer in the space below. Do not write in this column

A Pl	ace called Orkney	Do not in this o	
When And When But b With Shipy The b When Do y That	ou know a place called Orkney? re the town only whispers, the mountains don't utter a word. re the sea is as clear as glass, blue like the cloudless sky. fish, eels, crab and lobster, wrecks and barriers of stone? bottomless depths are perilous, re few boldly go. ou know about the standing stones? baffle the scientists, ning the circle of mystery.		
	Adapted from <u>A Place called Orkney</u> 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 $\square$ each statement true or false. True False		
	Orkney is a place which is very noisy.		
	The sea is a very safe place.		
	Scientists know why the standing stones		
10.	Find the word in the poem closest in meaning to each of the words below. Write your answer in the space provided.		
	transparent		
	dangerous		
	confuse		

- The following four words are used in the poem: utter, shipwreck, boldly Do not write in this column and perilous. 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 utter shipwreck boldly perilous What does the poet mean by 'the town only whispers'? Base your answer on the information in the passage. Tick  $\checkmark$  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.

Which two words does the poet use to describe the water? 14. Tick  $\checkmark$  the best answers.

Clear	
Blue	
Cloudless	

11.

12.

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

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

Do not write in this column

- 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.
- 17. Flour costs £1.40 per kilogram. What is the cost of 250g of flour? Write your answer in the space below.

- 18. Milk costs £1.12 per litre. What is the cost of 25 litres? Write your answer in the space below.
- **19.** Ribbon costs £3.50 per metre. What is the cost of 120cm 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.

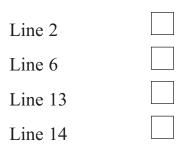
A bag contains coloured counters. In the bag there are ten counters. Do not write in this column Here are the number of counters of each colour in the bag: 5 blue 3 red 1 yellow 1 brown Claire cannot see into the bag. She picks a counter from the bag. What is the probability of picking a blue counter? Give your answer by circling the correct fraction below.  $\frac{5}{1}$ 10/5 $\frac{1}{2}$  $^{1}/_{5}$ In a primary school class 40% of pupils play football, 25% play 22. 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. \_\_\_\_\_ pupils How many pupils swim? Write your answer in the space below. 23. \_\_\_\_\_ pupils

21.

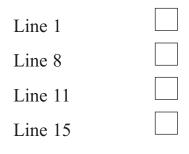
### The passage you are about to read contains four errors and two words are missing. Read the passage and then answer the questions that follow it.

Crest College would like to invite you and your family to a special open evening on monday January 13th at 8pm.	Line 1 Line 2
Every department in the college will be represented and	Line 3
you will have a chance to speak to teachers and students	Line 4
who will be only too happy to answer your questions about	Line 5
our school. There will also be a special area where you can	Line 6
find out about the many clubs and societies on offer for	Line 7
new students. Therefore, wheather your interest is football	Line 8
or fitness, we are sure you will find something to suit you	Line 9
here. If you need something to eat or drink our modern	Line 10
canteen will provide hot and cold snacks and beverages	Line 11
during the evening.	Line 12
Do you have any further questions. If the answer is yes	Line 13
then please contact us at the college. We happy to	Line 14
answer any questions you might have. We look forward to	Line 15
seeing you on our open night. There is ample parking spaces	Line 16
and the college is easily reached by public transport.	Line 17

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.



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



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

Line 8	
Line 13	
Line 16	
Line 17	

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	
Line 4	
Line 9	
Line 16	

**28.** The pair of words missing on line 14 are:

will be	
could be	
can be	
might be	

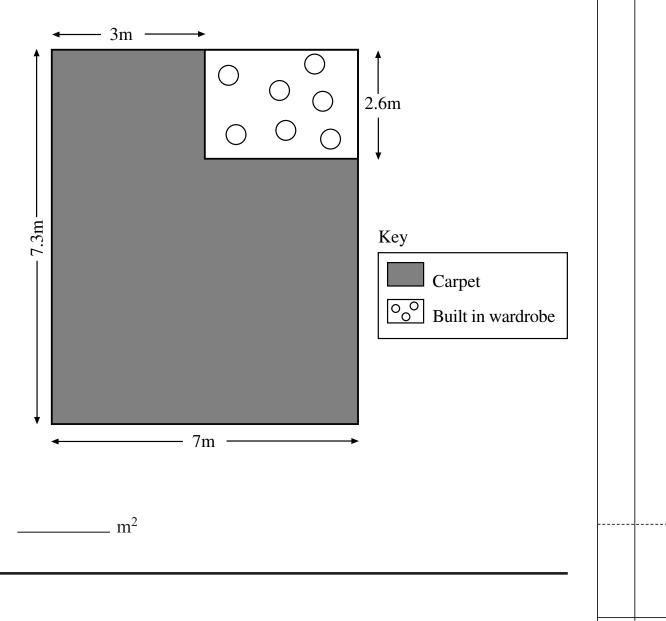
Do not write in this column

**29.** Complete the number statements below by writing the missing number in the space provided.

 $108 \times 482 = 216 \times$  \_\_\_\_\_\_  $432 \div 16 =$  \_\_\_\_\_\_  $\div 8$ 

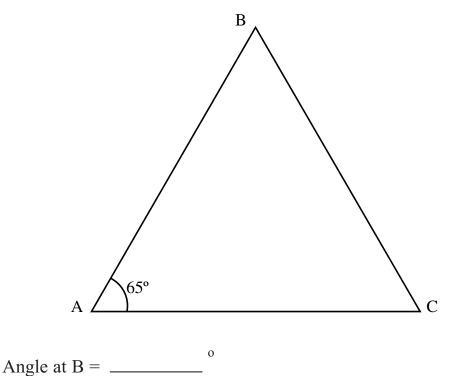
736 - 418 = 536 - \_\_\_\_\_

**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 m<sup>2</sup>. Write your answer in the space below.



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°. What is the size of the angle at B? Write your answer in the space below.



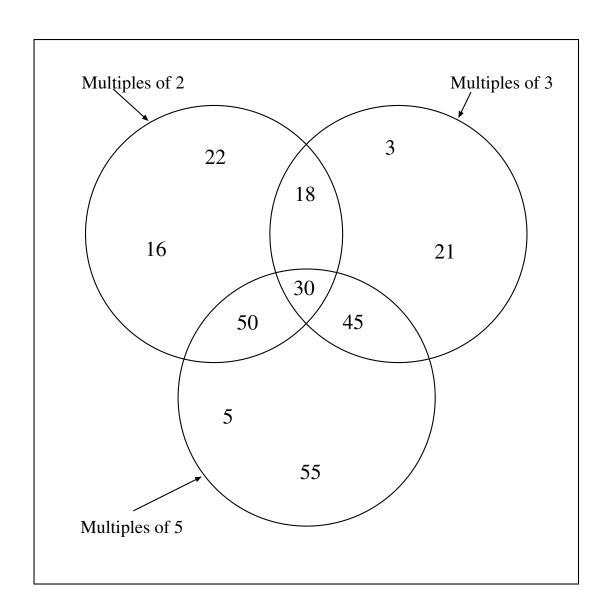
**32.** Look at the four types of angle below. What type of angle is  $65^{\circ}$ ? Select one of the four types of angle by ticking  $\square$  the box.

Acute angle Obtuse angle Reflex angle Right angle

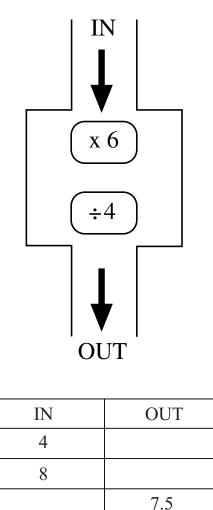
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**33.** Look at the Venn diagram below. Some numbers are written on the Venn diagram. Where would the number twenty go on the Venn diagram? Give your answer by writing 20 in the correct place on the Venn diagram.



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



**35.** The number of minutes taken by nine pupils to complete a puzzle is given below:

3 3 6 6 6 7 5 3 6

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

\_\_\_\_\_ minutes

**36.** Look at the times taken by the nine pupils to complete the puzzle. What is the range? Write your answer in the space below.

minutes

Dr. L	ee's Coloured Fish	t write column
and bla in the of a ta spurtin scatter by a so Brough on the now the to and	e golden, white ack carp swimming filtered water nk beside my still head, ng up for food or ting like birds startled ound. ht as bright hand-luggage plane from Singapore: ney turn fro, hardly pausing, and nly to direct movement.	
	John Dickson	
	What three colours are used to describe the fish? Write your answers in the spaces below.	
	and and	 
	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 1. <u>scattering</u> 2 3 4 5	

39.	word you?	vord closest in m 're searching for ord in the space p	appears some			Do not write in this column
	quiet					
	surprised					
	motion					
40.	<b>40.</b> Based on your understanding of the poem, circle the best word or best pair of words to complete the sentences below:					
	The poet i	is describing a fi	lter suitcase	container holdi	ing	
	a couple	a few a dozen c	one fish that a	re sleeping mo	otionless darting	
	floating i	n the water.				
41.	<ul> <li>41. The following four words are used in the poem: carp, still, hardly and direct. Tick  I 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.</li> </ul>					
		Adjective	Verb	Noun	Adverb	
carp						
still						
hard	-					
dire	ct					

- **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.

and

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.	Do not write in this column
	and	
45.	What percentage of 165 is 55? Write your answer in the space below.	
46.	Look at the four numbers below.	
	<ul><li>1086 10.86 108.6 1.086</li><li>The answer to the calculation below is one of these four numbers.</li><li>Write the number you have chosen in the space below.</li><li>When you multiply 0.9 by 114 and then add 6 you get</li></ul>	
47.	Find the first number in the sequence below. Write your answer in the space provided.	
	9.5 10.2 11.0 11.9	
48.	Look at the four fractions below. Circle the fraction nearest in value to 0.5.	
	<sup>5</sup> / <sub>6</sub> <sup>5</sup> / <sub>12</sub> <sup>3</sup> / <sub>4</sub> <sup>2</sup> / <sub>3</sub>	

**49.** Look at the dates of birth of five pupils:

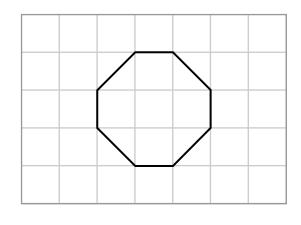
Paul	13th June 2001
Sinead	21st April 2000
Fiona	24th March 2001
Richard	11th August 2000
Caroline	1st May 2001

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.

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

### 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  $\square$  each statement true or false.

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

### Do not write in this column

**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	
mounted	
twilight	

55. The following four words are used in the passage: perfect, vividly, entrance and forgive. 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
perfect (used in paragraph 1)				
vividly (used in paragraph 2)				
entrance (used in paragraph 3)				
forgive (used in paragraph 4)				

**56.** Where would you normally find a passage such as "Hauntingdale"? Tick  $\square$  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 $\square$ the word closest in meaning to gingerly.	Do not in this o	
	happilyquicklycautiouslyloudly		
58.	Why did Ross ask Ryan to forgive him? Tick $\square$ the best answer.		
	He and Ryan had been fighting.		
		$\mid$	

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