

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

CEA

Common Entrance Assessment

Paper 2

Saturday 27 November 2010

Time: 1 Hour

Please fill in the following from your admission card:

Your Candidate Number

ANSWERS

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	(4)		
2	(4)		
6	(4)		
7	(2)		
8	(2)		
12	(3)		
13	(4)		
14	(1)		
18	(2)		
19	(3)		
20	(3)		
TOTAL 32			

NOT TO BE FILLED IN BY THE PUPIL			
ENGLISH			
Page	Marks	Score	Check
4	(5)		
5	(4)		
9	(1)		
10	(3)		
11	(1)		
15	(3)		
16	(3)		
17	(3)		
21	(1)		
22	(5)		
23	(3)		
TOTAL 32			
TOTAL SCORE			

The New Boy

The door swung inward. I stood and breathed
The new-school atmosphere.
The smell of polish and disinfectant,
And the flavour of my own fear.

I followed into the cloakroom; the walls
Rang to the shattering noise
Of boys who barged and boys who banged;
Boys and still more boys!

A boot flew by me. Its angry owner
Pursued with force and yell:
Somewhere a man snapped orders; somewhere
There clanged a warning bell.

And there I hung with my new schoolmates;
They pushing and shoving me; I
Unknown, unwanted, pinned to the wall;
On the verge of ready to cry.

Then, from the doorway, a boy called out:
'Hey you over there! You're new!
Don't just stand there propping the wall up!
I'll look after you!'

I turned; I timidly raised my eyes;
He stood and grinned meanwhile;
And my fear died, and my lips answered
Smile for his smile.

He showed me the basins, the rows of pegs;
He hung my cap at the end;
He led me away to my new classroom...
And now that boy's my friend.

John Walsh

Do not write
in this column

14. Look at the list of **four verbs** below. Write the **present tense** of each of the **verbs** in the spaces below. **Be careful with your spelling.** The first one has been done for you.

swung swing

hung hang

grinned grin

breathed breathe

15. According to the poem, only **two** of the statements below are **correct**. Tick the two correct statements.

The boy is frightened because

he is new to the school and everything is unfamiliar.

there is a lot of noise and confusion in the corridor.

he isn't good at anything related to mathematics.

there is a lot of noise and confusion in the cloakroom.

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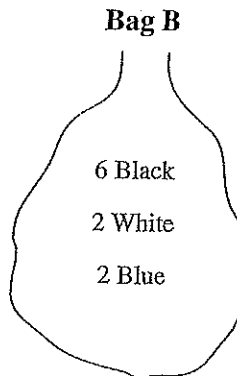
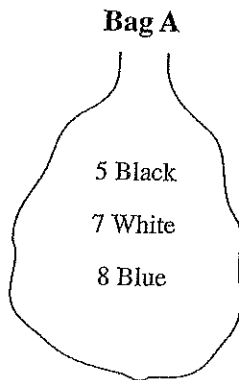
2

2

20. Four bags contain coloured counters. The bags are labelled A, B, C and D. The contents of each of the 4 bags are shown below.

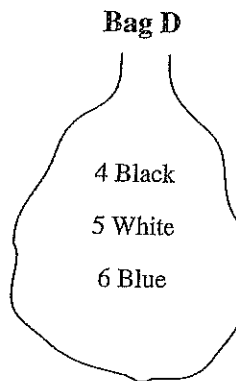
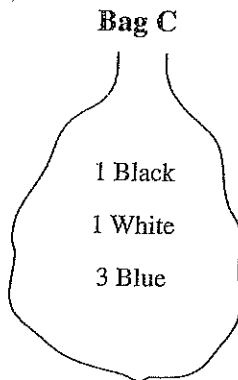
Do not write in this column.

$$\frac{8}{20} = \frac{2}{5}$$



$$\frac{2}{10} = \frac{1}{5}$$

$$\frac{3}{5}$$



$$\frac{6}{15} = \frac{2}{5}$$

Jenny is asked to take 1 counter from each bag without looking into the bag. From which bag is she most likely to take a blue counter? Write your answer A, B, C or D in the space below.

Bag C

21. Look at the menu below.

MENU		
Fish		£3.25
Chips		£1.80

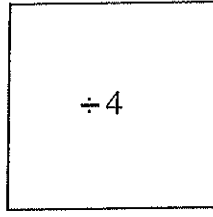
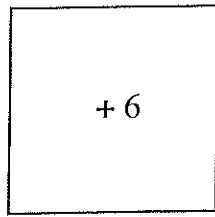
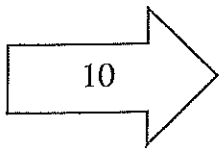
Calculate the cost of 2 fish and 3 portions of chips. Write your answer in the space below.

£ 11.90

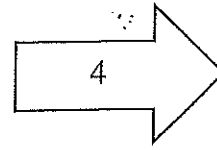
$$\begin{aligned} 3.25 \times 2 &= 6.50 \\ 1.80 \times 3 &= +5.40 \\ \hline &11.90 \end{aligned}$$

22. Look at the function machine below.

Starting number

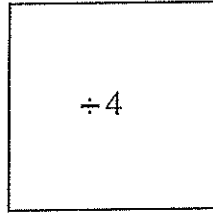
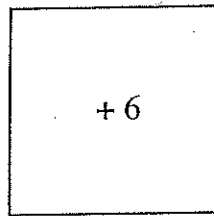
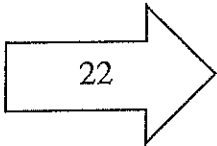


Answer

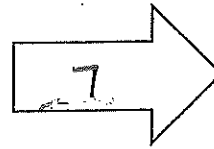


Now look at the two function machines below. The **answer** is **missing** in function machine (a) and the **starting number** is **missing** in function machine (b). Complete the two function machines below by writing the **correct number in the blank arrow**.

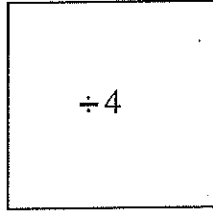
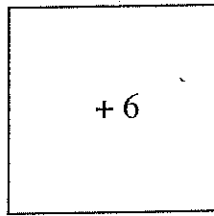
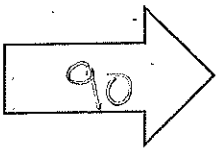
(a) Starting number



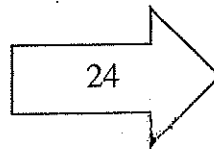
Answer



(b) Starting number



Answer



24
x4

96 - 6 = 90

23. Look at the number below

86.235

What is the value of the 3 in this number? Tick the correct answer.

3 hundreds

3 tenths

3 tens

3 hundredths

3 units

3 thousandths

Do not write in this column

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

Do not write in this column

Text Messaging

SMS language, also known as textspeak, is a term for the abbreviations and slang most commonly used in mobile phone text messaging, though its use is common on the Internet, including e-mail and instant messaging. (line 1)

This language for sending and recieving text messages is becoming more common. Many people still claim not to understand a word thats being written. (line 2)

Websites are now providing text translators for confused parents, as the older generation tries to keep up with today's technologically advanced youth. (line 3)

Many parents are worried about their children's poor literacy as a result of hours spent in front of a computer or communicating via text on mobiles. (line 4)

Scottish examinations where ^{were} criticised recently for accepting answers given in text message language, provided they were correct and showed understanding. (line 5)

What is the world coming to? There must be an effort made, on the part of educators and parents alike, to encourage children in their use of standard English. (line 6)

(line 7)

(line 8)

(line 9)

(line 10)

(line 11)

(line 12)

(line 13)

(line 14)

(line 15)

(line 16)

(line 17)

(line 18)

(line 19)

24. Each line is numbered. 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 3

line 7

line 9

line 14

29. An athlete takes **9 minutes** to run **3000 metres** at a steady speed. **How long** would she take to run **1 kilometre** at the same steady speed? Write your answer in the space below.

3 minutes

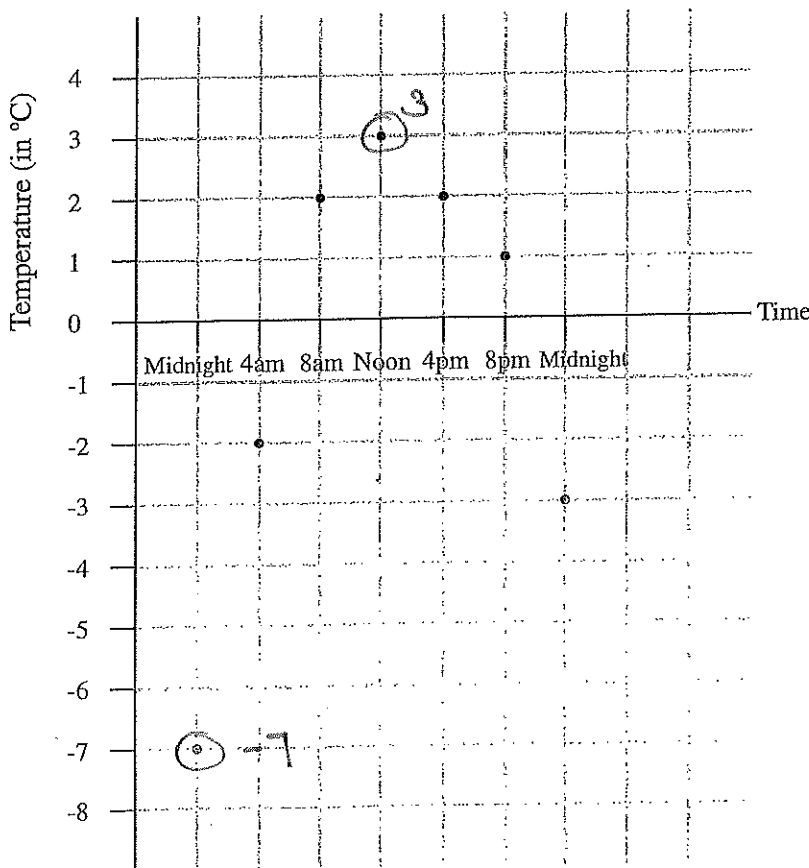
$$\frac{1}{3} \text{ of } 9$$

30. Roseagh is a member of a gym. It costs her **£19.50** each month. How much in **total** does she pay to the gym in **1 year**? Write your answer in the space below.

£ 234.00

$$\begin{array}{r} 19.50 \\ \times 12 \\ \hline 234.00 \end{array}$$

31. The temperature at an airport is recorded every 4 hours for a 24 hour period. The results are shown on the graph below.



What is the difference between the highest and lowest temperature recorded? Write your answer in the space below.

10 °C $-7 \rightarrow 0 \rightarrow 3$
 $7 + 3$

Do not write in this column	
1	
1	
(3)	

32. William thinks of 2 **consecutive** numbers. When he **adds** the numbers he gets 19. When he **multiplies** the numbers he gets 90. What are the two numbers William thinks of? Write your answers in the spaces below.

10 9

Do not write in this column

33. Barra went on holiday last summer. He spent 35 minutes getting to the airport from his home. He then spent 1 hour at the airport before his flight. The flight lasted for $2\frac{1}{2}$ hours. Barra was at his holiday hotel 50 minutes after landing at the airport. How long did it take him in total to get from his home to his hotel? Write your answer in the spaces below.

4 hours 55 minutes

$$35 + 60 + 150 + 50 = 295 \text{ mins}$$

34. Use the information in the first statement below to complete the other statement. Write your answer in the space below.

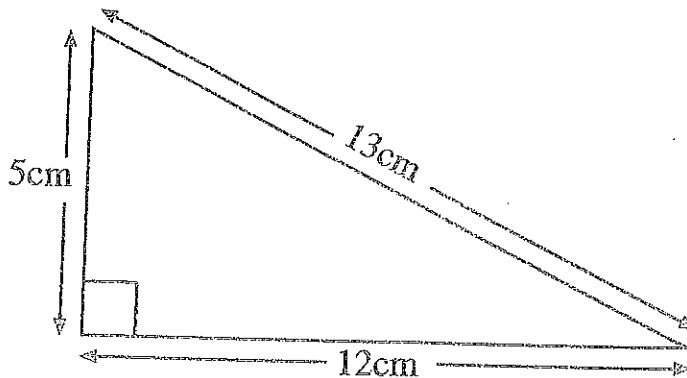
$$\frac{1}{5} \text{ of } c = 8$$

$$c = 8 \times 5 = 40$$

$$50\% \text{ of } c = \underline{20}$$

$$50\% \text{ of } 40 = 20$$

35. Look at the right-angled triangle below.



Find the perimeter of the triangle. Write your answer in the space below.

30 cm

Find the area of the triangle. Write your answer in the space below.

30 cm²

$$\frac{b \times h}{2} = \frac{60}{2} = 30$$

36. Here are 5 fractions:

$$\begin{array}{ccccc} \frac{5}{6} & \frac{7}{9} & \frac{29}{36} & \frac{7}{12} & \frac{13}{18} \\ \frac{\cancel{30}}{36} & \frac{\cancel{28}}{36} & & \frac{\cancel{21}}{36} & \frac{\cancel{26}}{36} \end{array}$$

Which is the **smallest** fraction? Write your answer in the space below.

$$\frac{7}{12}$$

Do not write
in this column

1

Swift Things are Beautiful

Swift things are beautiful:

Swallows and deer,
And lightning that falls,
Bright-veined and clear,
Rivers and meteors,
Wind in the wheat,
The strong-withered horse,
The runner's sure feet.

And slow things are beautiful:

The closing of day,
The pause of a wave
That curves downward to spray,
The ember that crumbles,
The opening flower,
And the ox that moves on
In the quiet of power.

Elizabeth Coatsworth

37. Only **one** of the following sentences is true. Based on your reading of the poem, tick the true sentence.

The poet thinks that only swift things are beautiful.

The poet describes the opening of a flower as slow.

The poet writes about the joy of life in the city.

38. The word **ox** is used in verse two of the poem. The plural of **ox** is **oxen**. Write the plurals of the following words in the spaces below. The first one has been done for you. Be careful with your spelling.

horse horses

deer deer

monkey monkeys

sheep sheep

2 correct: 1

Do not write in this column

2

(3)

39. Look at the **four phrases** below. The phrases all appear in the poem. Tick the phrase **closest in meaning** to the words:

small pieces of wood or coal burning in a fire.

Lightning that falls

Bright-veined and clear

The ember that crumbles

In the quiet of power

40. The poem refers to **sure feet**. **Who or what** has sure feet? Tick the correct answer below.

the deer

the ox

the runner

the horse

41. Tick the statement below that best describes the poem.

Swift Things are Beautiful is

a poem about the beauty found in nature.

a poem about really beautiful animals.

a poem about the changing weather.

Do not write
in this column.

3

(3)

42. **Swift** and **slow** are opposites. Find the word **opposite** in meaning to each of the words below. Write your answer in the space provided.
The answers **all appear in the poem.**

ugly beautiful

uncertain sure

upward downward

43. The **four phrases** below appear in the poem. Tick the phrase which is **closest in meaning** to the word **evening**.

Lightning that falls

The closing of day

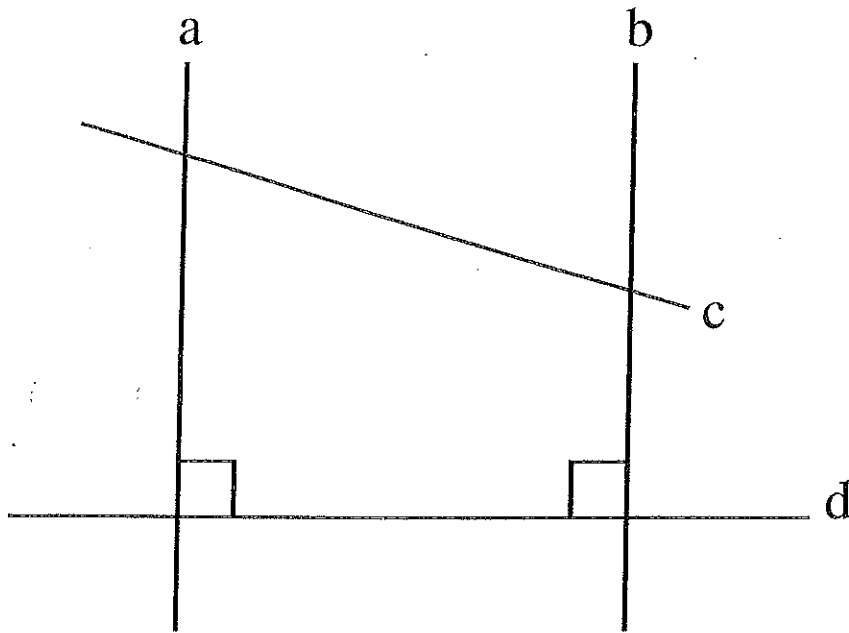
The pause of a wave

The quiet of power

Do not write in this column

2

44. The figure below shows 4 lines **a**, **b**, **c**, and **d**.



Tick each of the statements below **true** or **false**.

	True	False
Line a is parallel to line b	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Line c is parallel to line d	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Line a is perpendicular to line c	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Line a is perpendicular to line d	<input checked="" type="checkbox"/>	<input type="checkbox"/>

45. A square number can be added to a prime number to make 39.
There are two ways of doing this. One of the ways is given below:

$$36 + 3 = 39$$

What other square number can be added to a prime number to give 39?
Write your answer in the boxes below.

$$\boxed{16} + \boxed{23} = 39$$

Do not write
in this column

The Fox in Winter

“Hey!” Dave was calling her from the beach below, and she climbed down to him. Beyond them was a stretch of massive boulders, fallen in times past from the cliff face, and they clambered over them, leaping from rock to rock. The waves surged forward, rushing between the rocks and splashing over the top. The force of the water made Fran feel dizzy, if she looked at it.

They leaped down to a small beach. The tide had just cleared it, and there was not a mark on the smooth stretch of sand. They ran across it, and turned to look back at their two sets of footprints. No holiday-makers ever found their way here.

Before them stood the arched mouth of the cave, as big as a chapel. The tide had built up the sand across the entrance, trapping a large pool; sunlight reflected from the surface struck the roof of the cave, so that a shimmering light played over the stone.

They waded through. As they broke the surface, the light on the roof shattered; it danced frantically until they reached the sand beyond, and then gradually it settled down. A few drips of water fell from above, and the chill of the cavern struck them.

The rocks rising out of the sandy floor, with smaller pools around them, were covered with shiny seaweed. Mr Trelor once said that this was laver; they used to boil it and eat it as a vegetable. She scraped a sample into a plastic bag.

John Branfield

52. Who is exploring the cave? Look at the answers below and tick the best answer.

Fran and Mr Trelor

Dave and Mr Trelor

Fran and Dave

Fran, Dave and Mr Trelor

Do not write
in this column

Do not write
in this column

57. Look at **paragraph four** of the passage. Now look at the **four sentences** below. **One** of the sentences is **true**. Tick the true sentence.

A light bulb on the roof of the cave shatters.

Dave and Fran begin to dance in the cave.

Dave and Fran wade through a pool of light.

The pool of water reflects light onto the roof.

58. The word **frantically** is used in the passage. This is an **adverb**. Write the **adverb** for each of the following words below in the space provided. **Be careful with your spelling**. The first one has been done for you.

happy happily

slow slowly

funny funnily

1

2

3