

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

# CEA

## Common Entrance Assessment

### Paper 3

**Saturday 30 November 2013**

**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**

*Association for Quality Education Limited*

NOT TO BE FILLED IN BY THE PUPIL			
MATHEMATICS			
Page	Marks	Score	Check
1	(4)		
2	(4)		
6	(2)		
7	(2)		
8	(2)		
9	(2)		
12	(4)		
13	(3)		
14	(1)		
18	(4)		
19	(2)		
20	(2)		
<b>TOTAL 32</b>			

NOT TO BE FILLED IN BY THE PUPIL			
ENGLISH			
Page	Marks	Score	Check
3	(3)		
4	(5)		
5	(1)		
10	(2)		
11	(3)		
16	(5)		
17	(5)		
22	(4)		
23	(4)		
<b>TOTAL 32</b>			
<b>TOTAL SCORE</b>			



5. Look at the three equations below:

$$x - 9 = 15$$

$$y \times 5 = 15$$

$$z + 5 = 15$$

Which letter has the **largest** value? Tick  the correct answer below.

**x**     

**y**     

**z**     

---

6. Look at the numbers below:

**0.2**      **0.22**      **0.02**      **0.4**      **0.33**

Add the **smallest** number to the **largest** number. Write your answer in the space below.

\_\_\_\_\_

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7. Look at the equation below:

$$59 - a = 31$$

What is the value of **a**? Write your answer in the space below.

**a** = \_\_\_\_\_

---

8. What is the **4<sup>th</sup> triangular number**? Write your answer in the space below.

\_\_\_\_\_

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# Sea Fever

I must go down to the seas again, to the lonely sea and the sky,  
 And all I ask is a tall ship and a star to steer her by,  
 And the wheel's kick and the wind's song and the white sail's shaking,  
 And a gray mist on the sea's face, and a gray dawn breaking.

I must go down to the seas again, for the call of the running tide  
 Is a wild call and a clear call that may not be denied;  
 And all I ask is a windy day with the white clouds flying,  
 And the flung spray and the blown spume, and the sea-gulls crying.

I must go down to the seas again, to the vagrant gypsy life,  
 To the gull's way and the whale's way where the wind's like a whetted knife;  
 And all I ask is a merry yarn from a laughing fellow-rover,  
 And quiet sleep and a sweet dream when the long trick's over.

**John Masefield**

9. Which word in **verse one** is closest in meaning to **trembling**?  
 Write your answer in the space below.

\_\_\_\_\_

10. Look at the following statements. **Based on your reading of the poem** tick  if the statements are **true** or **false**.

**True**      **False**

The poet prefers tall ships.



The poet does not like to be at sea in windy weather.



The poet likes to chat with a fellow traveller.



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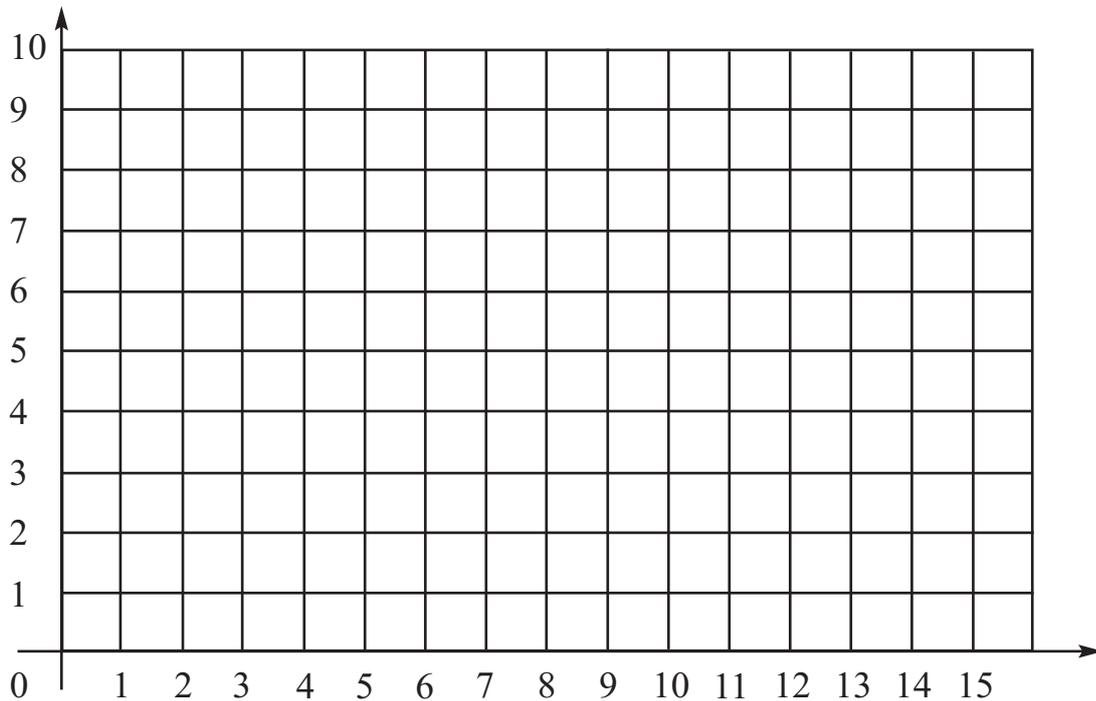






18. You may find the grid below useful in solving this question.  
**Two corners of a right-angled triangle have coordinates (2,2) and (6,7).** Look at the three statements below. Tick  the correct box to show whether the statement is **true** or **false**.

- |   | <b>True</b>              | <b>False</b>             |
|---|--------------------------|--------------------------|
| The third corner could have coordinates (6,2) | <input type="checkbox"/> | <input type="checkbox"/> |
| The third corner could have coordinates (5,8) | <input type="checkbox"/> | <input type="checkbox"/> |
| The third corner could have coordinates (2,7) | <input type="checkbox"/> | <input type="checkbox"/> |



19. Look at the four numbers below

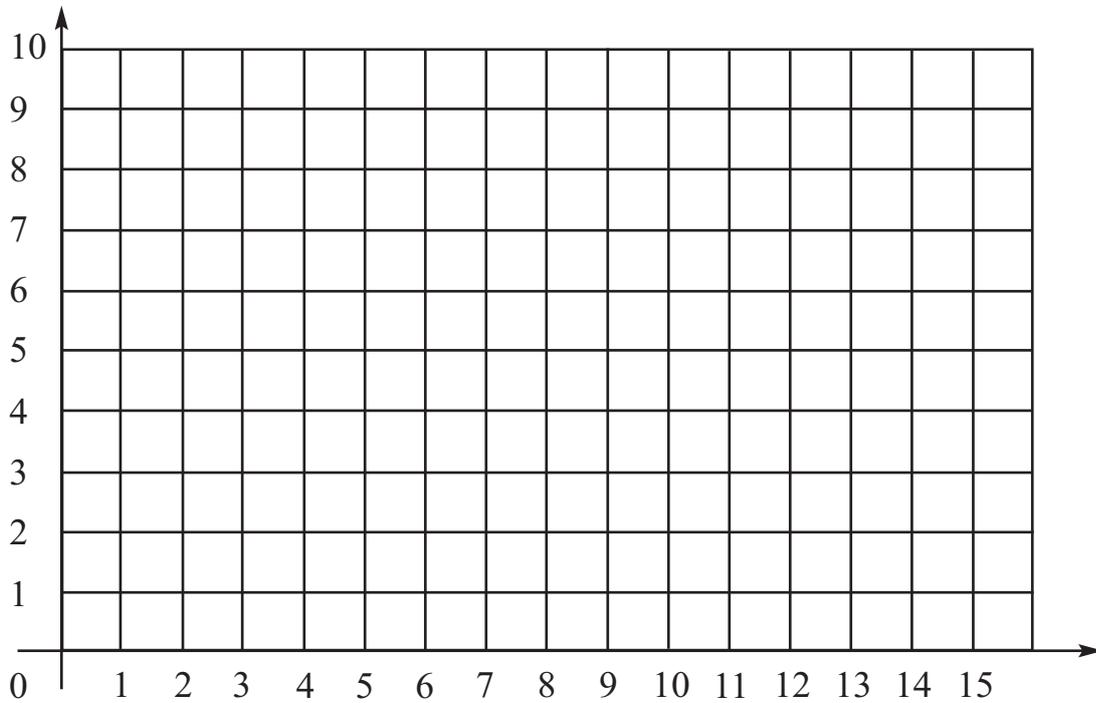
**0.28      2.8      28      280**

The **answer** to the **calculation below** is one of these four numbers.  
 Write the number you have chosen in the space below.

**29.4 x 100 ÷ 105 = \_\_\_\_\_**

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20. You may find the grid below useful in solving this problem. Caitlyn plots the points  $(4, 8)$ ,  $(2, 3)$  and  $(12, 3)$ . Caitlyn then plots a **fourth point on the grid**. When she joins the points in order, she now has a **parallelogram**. What are the **coordinates** of Caitlyn's fourth point? Write your answer in the spaces below.



(\_\_\_\_, \_\_\_\_)

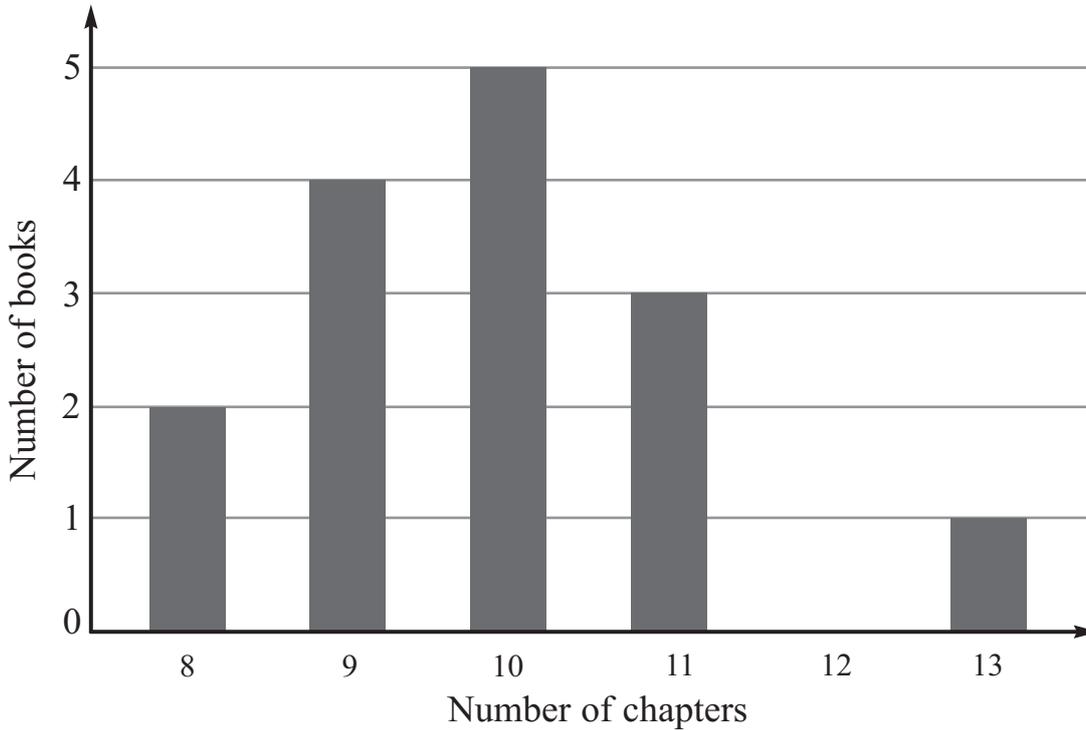
21. The temperature in **London** is  $3^\circ\text{C}$ . The **difference** between the temperature in **London** and **Dublin** is  $5^\circ\text{C}$ . There are **two possible** values for the temperature in Dublin which fit these facts. What are the two possible temperatures in Dublin? Write your answers in the spaces below.

\_\_\_\_\_°C or \_\_\_\_\_°C

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22. Stuart counts the **number of chapters** in each of the books he owns. His results are shown below.

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- (a) **How many books with 11 chapters** does Stuart own? Write your answer in the space below.

\_\_\_\_\_ books

- (b) **How many books with 12 chapters** does Stuart own? Write your answer in the space below.

\_\_\_\_\_ books

23. **Look again at the graph in Q 22.**

- (a) **How many books** does Stuart own **in total**? Write your answer in the space below.

\_\_\_\_\_ books

- (b) **What fraction of Stuart's books have 10 chapters?** Write your answer in the space below.

\_\_\_\_\_

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

## The Celtic Tiger

Have you heard of the Celtic Tiger. It isn't an Irish big cat roaming (line 1)  
the country. It refers to the period of economic growth between 1995 (line 2)  
and 2007. This means that Ireland became rich; in fact, the country (line 3)  
changed from being one of Europe's poorest countries to one of the (line 4)  
wealthiest. Many businesses moved to Ireland because they weren't (line 5)  
required to pay large amounts of money to the government in tax. (line 6)  
These businesses, many of them technology companies, also received (line 7)  
money from the European Union for working in one of its countries. (line 8)  
Enterprise Ireland, a state agency, helped new companies to form, (line 9)  
Unfortunately, the world financial crisis hit Ireland very badly. Some (line 10)  
people believe that too much money had been borrowed from banks (line 11)  
and politicians made bad decisions. Economists say the Celtic Tiger (line 12)  
is dead! (line 13)

24. Each line of the passage is numbered. 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 1

line 8

line 10

line 12

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

line 3

line 8

line 9

line 11

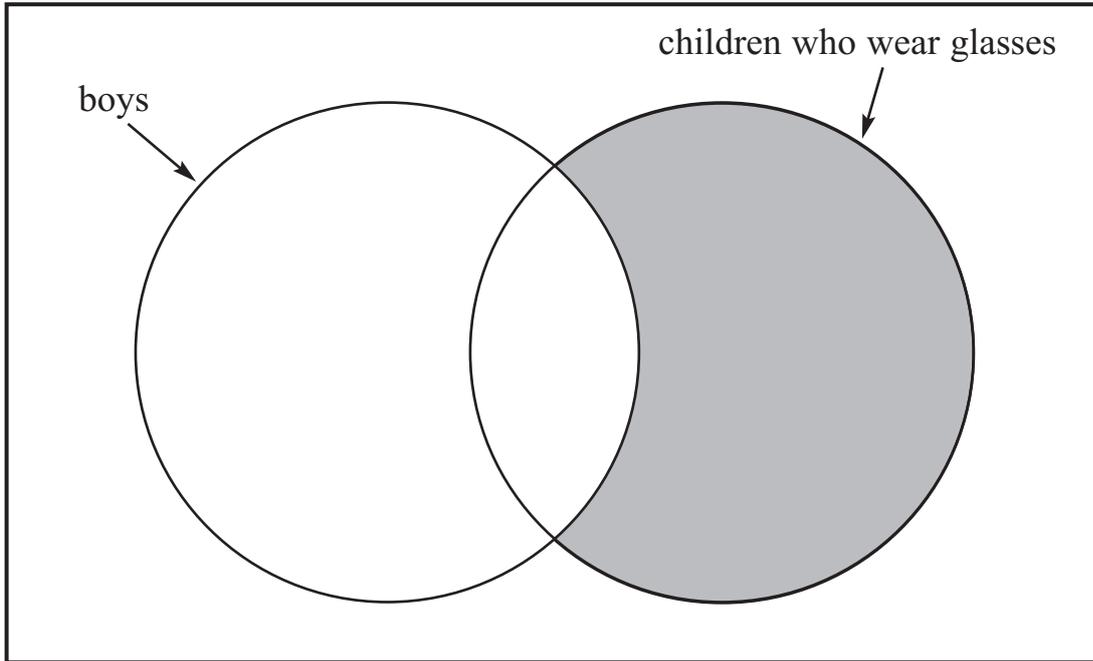
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36. Beth draws the Venn diagram below. It shows **two sets**: the set of **boys** and the set of **children who wear glasses**.



**Beth's friend** has been **included** in the **shaded region**. Look at the statements below. Tick  the box to show which one is **true**?

- Her friend is a **girl** who **wears glasses**.
- Her friend is a **boy** who **wears glasses**.
- Her friend is a **girl** who **does not wear glasses**.
- Her friend is a **boy** who **does not wear glasses**.

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## The Jellyfish

There isn't much a man can do  
about a grounded jellyfish  
Except step over it, or prod  
it with his walking stick, and if  
he has no walking stick, his shoe.  
My feet were bare, so I leaned  
to watch the waves relax around  
the shiny melted-looking heap.

The jellyfish didn't move,  
but then, of course, jellyfishes  
don't. They navigate at best  
like bottles: when the tide shifts  
they bob and drift away. But who  
has ever seen a living creature  
with a note inside?

I found an iridescent fish, uneaten  
and twitching still, inside the gluey  
drying bowel. I saw it jerk,  
expand its gill, then quiver, arrested  
loosely, loosely and forever.  
It shone with pink and green, blue  
and yellow, flashed profoundly silver  
in each spasm. I knew it was dead  
already, and only seemed to work  
to free itself.

As I tried to remove  
the notion from my mind, the mound  
it moved in, like a glassy brain,  
was taken from me by a wave  
that slid from the ocean without a sound.

**William Pitt Root**

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40. Tick  if the statements below are **true** or **false**. **True** **False**
- |   |                          |                          |
|---|--------------------------|--------------------------|
| In <b>verse one</b> , lines 1 and 5 end with rhyming words.     | <input type="checkbox"/> | <input type="checkbox"/> |
| In <b>verse two</b> , none of the lines end with rhyming words. | <input type="checkbox"/> | <input type="checkbox"/> |
| In <b>verse three</b> , lines 4 and 8 end with rhyming words.   | <input type="checkbox"/> | <input type="checkbox"/> |
| In <b>verse four</b> , lines 2 and 5 end with rhyming words.    | <input type="checkbox"/> | <input type="checkbox"/> |

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41. Which statement describes the **poet's attitude** towards the jellyfish **by the end of the poem**? Tick  the **best** answer below.

- He is revolted by what he sees.
- He is frightened by what he sees.
- He is fascinated by what he sees.

42. The following **words** are **from the poem**. Look at the **list of meanings labelled A to E**. Write the **correct letter in each box** to match the word to its meaning. One has been done for you.

- |            |   |  |
|------------|---|--|
| iridescent | <input style="border: 1px solid black; padding: 2px 5px;" type="text" value="D"/> | A: to tremble                                |
| quiver     | <input type="text"/>  | B: intensely or deeply                       |
| spasm      | <input type="text"/>  | C: to poke something or someone              |
| profoundly | <input type="text"/>  | D: showing rainbow-like colours              |
| prod       | <input type="text"/>  | E: a sudden involuntary movement of a muscle |

43. Which of the following words **best** describes **the waves** in the poem? Tick  the **best** answer below.

- stormy
- gentle
- crashing



48. Three different boxes of sweets contain a mixture of hard and soft sweets. Below are the numbers of hard and soft sweets in each box.

Box A
10 hard sweets
10 soft sweets

Box B
8 hard sweets
9 soft sweets

Box C
12 hard sweets
11 soft sweets

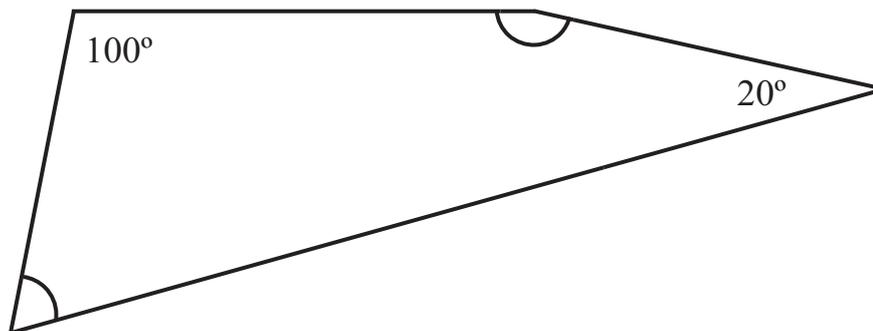
- (a) Finn selects a sweet **at random** from **each box**. **From which box** is he **most likely** to pick a **soft** sweet? Write your answer in the space below.

Box \_\_\_\_\_

- (b) **From which** box is he **least likely** to pick a **soft** sweet? Write your answer in the space below.

Box \_\_\_\_\_

49. Look at the **quadrilateral** below. **Two angles** are **given** and **two angles** are **missing**.

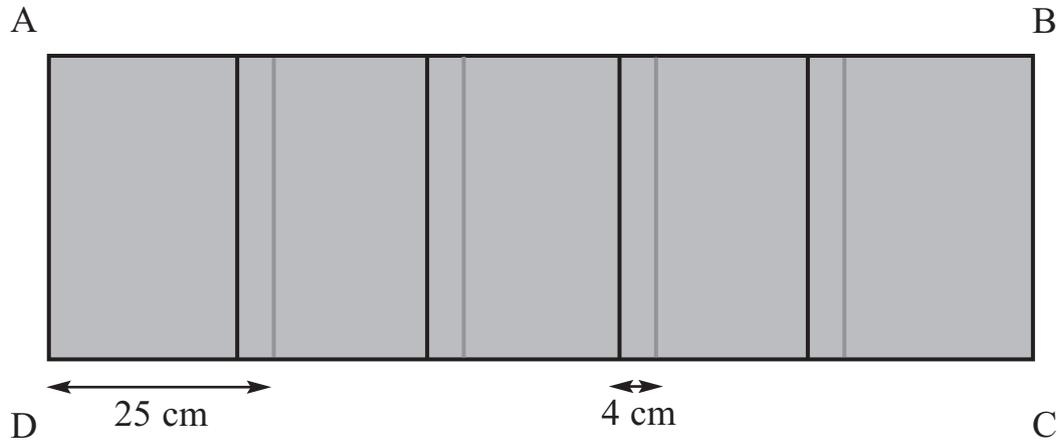


**One** of the **missing** angles is **twice** the size of **the other**. What is the **difference** between the **biggest** and **smallest** angles in the quadrilateral? Write your answer in the space below.

\_\_\_\_\_ °

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50. Miss Brodie is making a classroom display using **5 identical rectangular pages**. She staples the 5 pages to the display board to make a **rectangle ABCD** as shown below. Each page is **25 cm wide**. She places the pages so that there are **4 overlaps of 4 cm each**.



What is the **length** of the line **AB**? Write your answer in the space below.

\_\_\_\_\_ cm

51. A microchip is shaped like a **cuboid**. It measures **2 mm** by **1 mm** by **0.4 mm**. What is the **volume** of the microchip? Write your answer in the space below.

\_\_\_\_\_ mm<sup>3</sup>

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## The Swimming Trunks

I was one of nine children. Our terraced two-bedroom house was so full of bodies that it was cosy on winter nights but stifling in summer. Cecil was my eldest brother. To purchase the uniform for Cecil's new school, our mother had been working two jobs, as well as looking after the family. By the time September came her appearance reflected this, her face pale with dark circles under her eyes. However, when Cecil stepped into the parlour in his 'big school' uniform for the first time she cried with pride and she beamed from ear to ear.

On return from his first day at 'big school', Cecil informed mother that he needed swimming trunks for his physical education class the following day. No-one in the family owned such a thing, the boys had no reason to wear trunks on the rare occasion we visited our auntie's caravan in Ballywalter. Trousers had been rolled up or skirts tucked into knickers on the previous year's excursion to the beach.

As the colour drained quickly from mother's face we knew that swimming trunks must be costly. One day's notice for an expensive item was unheard of. Cecil's brow was furrowed with worry. "Don't worry, love," my mother reassured Cecil. "I'll sort something out." The following morning we woke up to find that my mother, a skilled seamstress and knitter, had worked through until daylight. She had knitted Cecil a pair of trunks in his school colours. Cecil left for school with his woollen trunks in his bag and a smile on his face. I waited at the bus stop, with some of the younger ones, to greet Cecil on his return. We were giddy with anticipation, anxious to hear his tales from 'big school'. Oh, how his expression had changed since morning when he stepped slowly and sullenly from the stubby-nosed bus!

"I don't want to talk about it, go home and stop pestering me," he mumbled, dragging his feet along the pavement. I couldn't understand how Cecil could be so grumpy. He had been swimming in his 'big school' wearing a beautiful pair of new swimming trunks, what more did he want? Only after a silent and morose dinner did Cecil finally disclose the events of his day. As soon as his lovely new trunks hit the water they absorbed it, gradually becoming heavier and heavier. So that when Cecil attempted a doggy paddle motion his trunks sank to the bottom of the pool! His nickname from that day on was Cecil sinking trunks. Poor Cecil!

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56. The words quickly, knew, expensive and brow are from **paragraph three** of the passage. Tick  the **correct** box below to show whether each one has been used in the passage as a **noun, verb, adjective** or **adverb**.

	Noun	Verb	Adjective	Adverb
quickly				
knew				
expensive				
brow				

57. Based on what you have read in the last two paragraphs of the passage, how do we know that **Cecil's mood** has **changed**? Tick  the **correct** answers below. There are **two** correct answers.

- Cecil is no longer smiling.
- Cecil is upset and crying.
- Cecil shouts at the others.
- Cecil's body language.

58. Based on what you have read in the whole passage, tick  the one **true** statement below.

- The writer is a pupil at the 'big school'.
- The writer is the youngest child in the family.
- The writer is a skilled seamstress and knitter.
- The writer feels sorry for Cecil's misfortune.

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