

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

CEA

Common Entrance Assessment

Paper 2

Saturday 24 November 2012

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

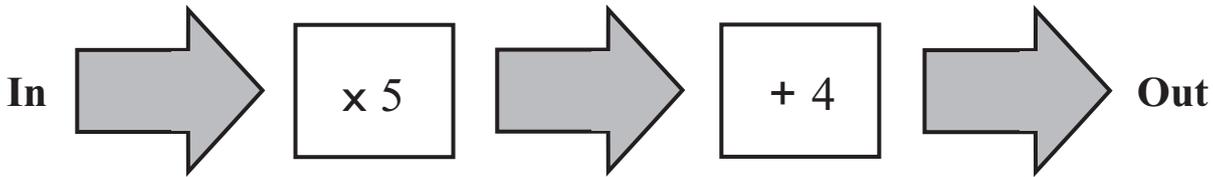
NOT TO BE FILLED IN BY THE PUPIL			
MATHEMATICS			
Page	Marks	Score	Check
1	(4)		
2	(3)		
3	(1)		
7	(4)		
8	(2)		
9	(2)		
13	(2)		
14	(3)		
15	(3)		
19	(3)		
20	(2)		
21	(3)		
TOTAL 32			

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ENGLISH			
Page	Marks	Score	Check
4	(1)		
5	(5)		
6	(3)		
10	(1)		
11	(3)		
12	(1)		
16	(2)		
17	(5)		
18	(3)		
23	(4)		
24	(4)		
TOTAL 32			
TOTAL SCORE			

1. Jack takes **30 marbles** to school. At break time he **wins 8 marbles** in a game. At lunchtime he **loses 15 marbles**. **How many marbles** does Jack have now? Write your answer in the space below.

_____ marbles

2. Look at the function machine below.



Use this function machine to **complete the table** below.

In	Out
2	14
7	
	4

3. Look at the statement below.

$$b \div 25 = 5$$

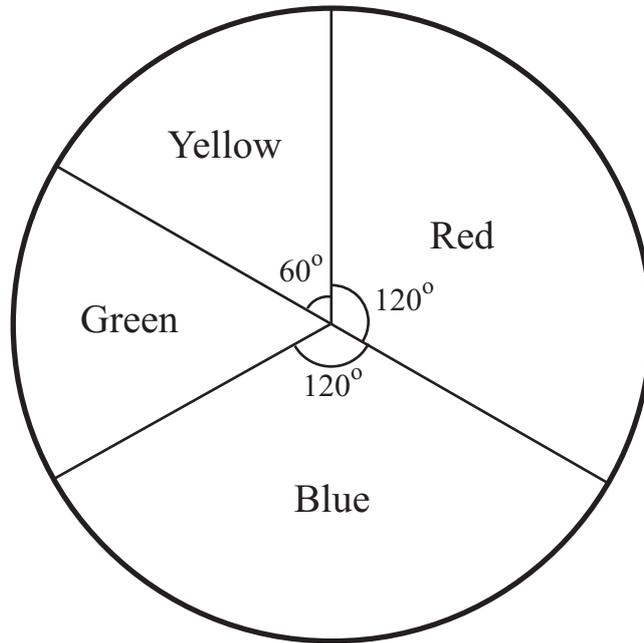
What is the value of **b**? Write your answer in the space below.

4. **How many degrees** are there in **one and a quarter whole turns**? Write your answer in the space below.

_____°

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in this column

5. Peter asks a number of adults about **the colour of their car**. He draws the **pie chart** below.



He finds out that **7** adults each had a **yellow** car. **How many** adults had a **red** car? Write your answer in the space below.

_____ adults

6. **How many adults in total** did Peter ask? Write your answer in the space below.

_____ adults

-
7. It is Samuel's birthday. He **multiplies his age by 3** and then **adds 6** years. He gets an answer of **51** years. **What is his age?** Write your answer in the space below.

_____ years

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Morning

I stagger up to the sink and turn on the tap.
A waterfall gushes out at me,
spraying my pyjamas with an icy cold wake up call.
I lean forward and squint to see
what the mirror holds for me today.
It's not a pretty sight.

Toothpaste at the ready,
the toothbrush buzzes into life.
Enveloped in my mouth it makes my brain rattle.
Minty fresh and shiny white,
these gnashers are ready to face the world.
It's a pity I'm not!

A quick splash of cool water to the face
and now I am fully awake.
Breezing to my bedroom, I quickly dress,
rush downstairs and begin to make
some breakfast - fuel for the day ahead.
It's time to go.

Mum's in the car, honking the horn,
hurrying me along.
Lunch - check. Bag packed. Homework -
hopefully not all wrong!
We're off. Ready to face another day.

9. Look at **verse two** of the poem. Which **word** tells us that the poet uses an **electric toothbrush**? Write your answer in the space below.

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16. What is the number which is **exactly half-way** between **94** and **178**?
Write your answer in the space below.

17. A box of sweets costs **£1.50**. What is the **largest number of boxes** I can buy with **£10**? Write your answer in the space below.

_____ boxes

18. Look at the sequence of numbers below. **Complete the sequence** by writing the correct **numbers** in the **2 spaces** provided.

62 57 _____ 47 _____

19. The table below shows the temperature in Prague at different times of the day. There are **3 temperatures missing** from the table.

Time	6 am	9 am	12 pm	3 pm	8 pm
Temperature in °C	- 8			14	

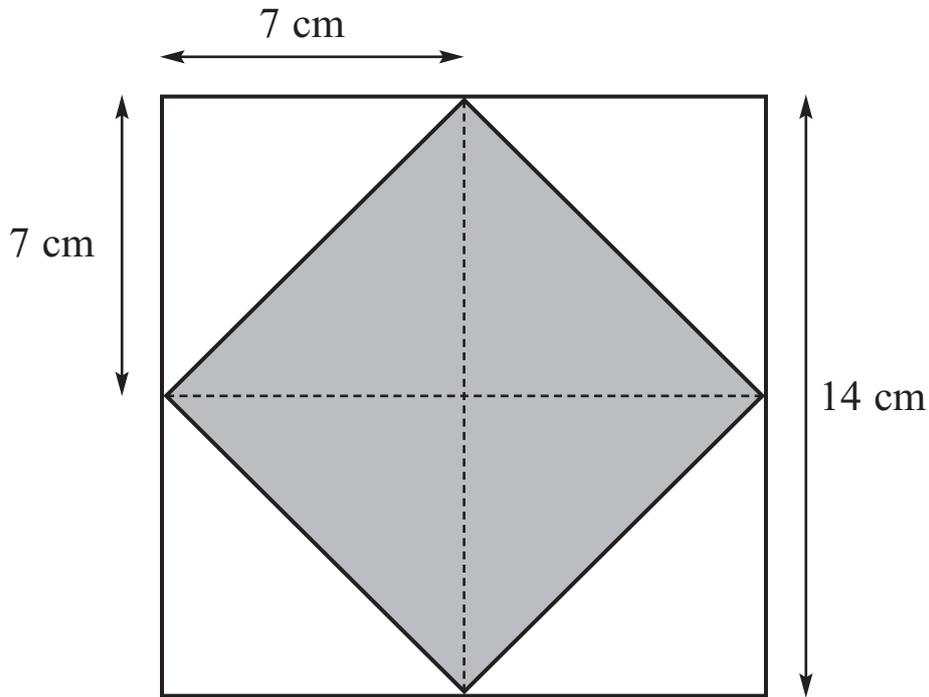
You are given the following information. It will help you to fill in the blank spaces in the table.

- The temperature **increased** by **6 °C** between **6 am** and **9 am**.
The temperature **increased** by **12 °C** between **9 am** and **12 pm**.
The temperature **decreased** by **9 °C** between **3 pm** and **8 pm**.

Use this information to **complete** the table above.

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20. The diagram below shows a **shaded square** inside a **larger square**. Each **side** of the **large square** measures **14 cm**.



Calculate the **area** of the **shaded square**. Write your answer in the space below.

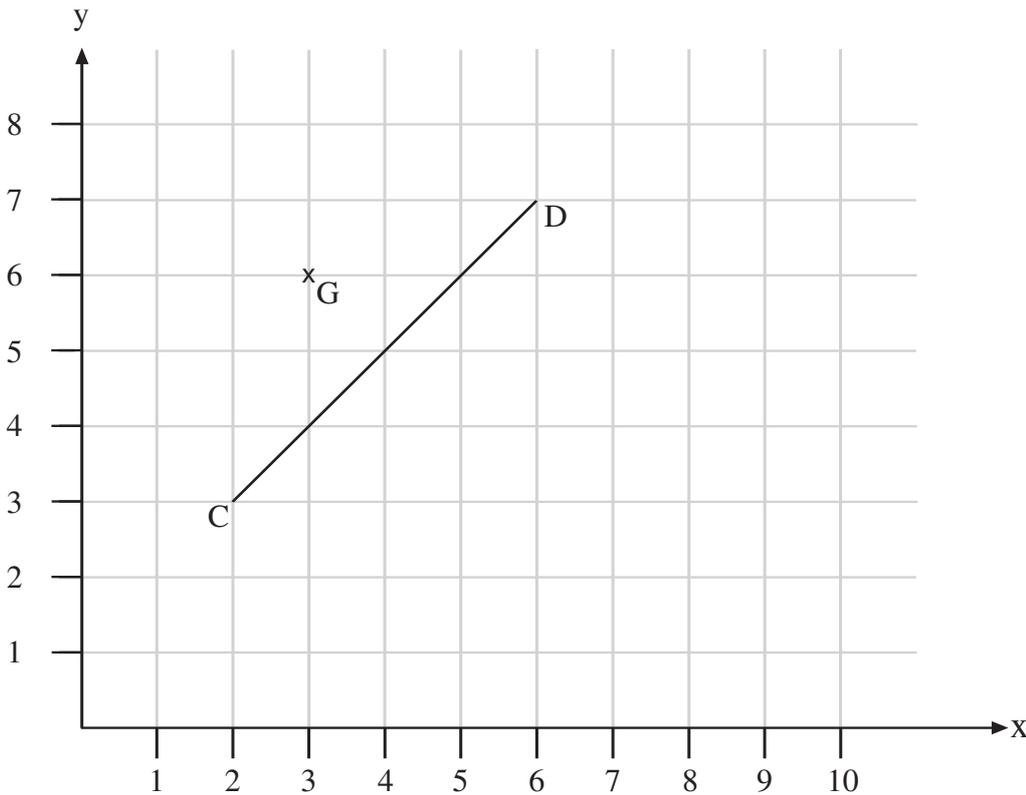
_____ cm²

21. How many **seconds** are there in **one hour**? Write your answer in the space below.

_____ seconds

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22. The **line CD** is shown in the grid below. The **point G** is also shown.



What are the **coordinates** of the point **G**? Write your answer in the spaces below.

(____ , ____)

23. If a **line** is drawn from **G to C** and a **line** is drawn from **G to D**, we get a **triangle**. What **type** of triangle is this? Tick the correct box below.

scalene

equilateral

isosceles

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

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My trip to Belfast Zoo. (line 1)

Yesterday, my class went on a school trip to the zoo. We had a great (line 2)

time and learned lots of things about the various animals who live there. (line 3)

Some of the many interesting animals we saw were the lemurs and the (line 4)

meerkats. I really liked the lemurs ringed tails and the meerkats (line 5)

reminded me of the ones from the television advertisements. There (line 6)

were penguins, chimps, kangaroos and even farm animals. One thing (line 7)

I didn't like about the zoo is the fact that it's built on the side of (line 8)

Cave Hill. Whoever thought of that. By the end of the day my legs (line 9)

really hurt and I had some big blisters on my heels. We stopped for (line 10)

a packed lunch at the lake where the flamingos live, After lunch we (line 11)

played in the park for a while. Jodie fell and grazed her knee. (line 12)

The zoo is really called Belfast Zoological Gardens. It's over (line 13)

seventy-five years old and during the Second World War they were (line 14)

forced to destroy some dangerous animals, in case bombings led to (line 15)

their escape. I will probably go back to the zoo in the summer (line 16)

with my mum, dad and sister. (line 17)

24. 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.

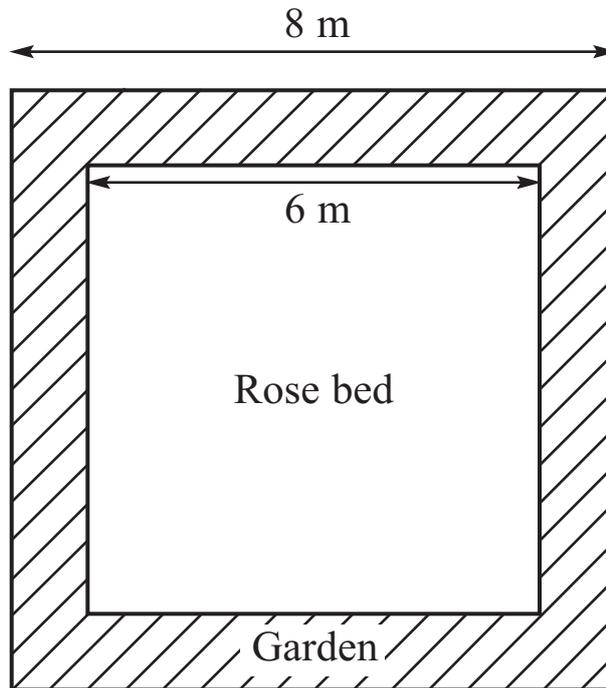
line 3

line 9

line 13

line 16

29. Look at the diagram below. It shows a **square rose bed**, in the centre of a **square garden**. The **garden** has **side 8 m** and the **rose bed** has **side 6 m**.



How much **further** is it to walk around the **outside edge** of the **garden** than the **outside edge** of the **rose bed**? Write your answer in the space below.

_____ m

30. Look again at the diagram of the garden. What is the **area** of the **shaded part** of the diagram? Write your answer in the space below.

_____ m²

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31. Boxes X, Y and Z contain chocolates. There are 3 types of chocolates: **dark, milk and white**. The number of chocolates in each box is:

Box X	Box Y	Box Z
1 dark	5 dark	2 dark
3 milk	3 milk	2 milk
1 white	2 white	1 white

I choose a chocolate at random from each box. For one of the boxes the **chance** of picking a **dark** chocolate is “evens”. **Which box?**
Write the correct letter **X, Y or Z** in the space below.

Box _____

32. A tin contains **450 g** of **tomato soup** and costs **20p**. Another tin contains **480 g** of **tuna** and costs **£1.30**.

What is the **total** cost of **6** tins of **tomato soup** and **3** tins of **tuna**?
Write your answer in the space below.

£ _____

33. **How much tuna is there** in the **3** tins? Give your answer in kg and g.
Write your answer in the spaces provided.

_____ kg and _____ g

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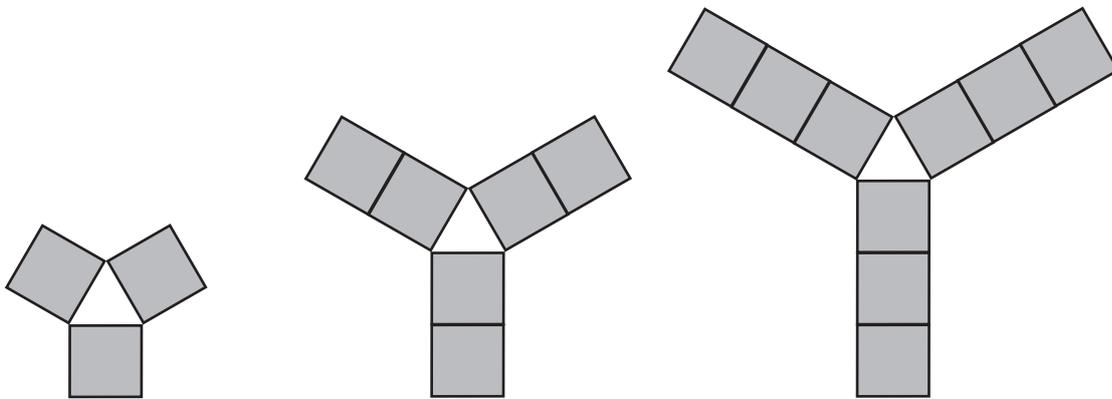
34. A train leaves **Belfast** at **17.40** and arrives in **Lisburn** at **18.20**.
How long does the journey from Belfast to Lisburn take?
 Write your answer in the space below.

_____ minutes

35. Another train leaves **Belfast** at **18.45** and the **journey to Lisburn** takes **42 minutes**. **At what time** will this train arrive in Lisburn?
 Give your answer using the **12 hour clock**. Write your answer in the space below.

_____ pm

36. Patterns are formed from square tiles. **The first three patterns** in a sequence are shown below.



Pattern 1

Pattern 2

Pattern 3

How many tiles are needed **in total** to make the **fifth and sixth** patterns in the sequence? Write your answer in the space below.

_____ tiles

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Pastures New

The cardboard boxes, labelled and piled high,
Line the walls of each room like coffins.
Squares of faded carpet mark the floors,
Holes in the walls like bullet holes,
Bare light bulbs shine an eerie ghost light.

The moving van rumbles along,
Down unknown roads and motorway.
We stare out the window of Mum's car:
Eyes glistening, wide and teary.

Even Dad is silent on this journey,
Usually his chatter drowns the sound of the engine.
Behind us we leave familiar surroundings:
Our school, our garden, friends and family.

We're moving on.

37. Which word in **verse two** is **closest in meaning** to **sparkling**? Write your answer in the space below. **Be careful with your spelling.**

38. Look at the **four words** below. Which word describes the **family's feelings** in this poem? Tick the **best** answer.

joyous

fearful

sad

excited

Do not write
in this column

39. The four words **coffins**, **along**, **erie** and **stare** are used in the poem. Tick the correct box below to show how each one has been used.

	verb	noun	adjective	adverb
coffins				
along				
erie				
stare				

Do not write
in this column

40. What is the poem about? Look at the **four descriptions** below. Tick the **best** description.

Going on holiday

Moving house

A death in the family

A shooting incident

41. The word **labelled** is used in **verse one** of the poem. It is the **past tense** of the verb **to label**. Write the **past tense** of the following verbs in the spaces below. These words are **not** in the poem. **Be careful with your spelling.**

cancel _____

travel _____

edit _____

admit _____

44. A map has the following scale:

1 centimetre represents 4 kilometres.

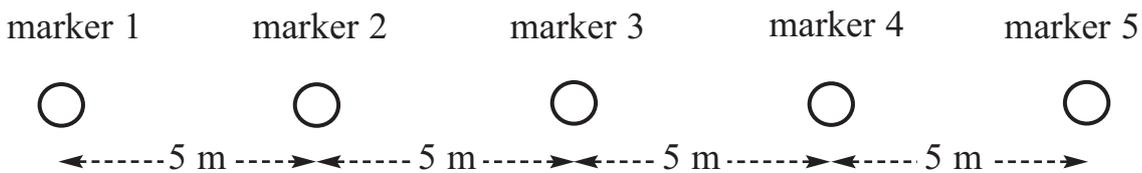
A post office is **24 kilometres** from a cinema. How far apart are they **on the map**? Write your answer in the space below.

_____ cm

45. A school and a church are **3.2 centimetres** apart **on the map**. What is the **actual distance** between the school and the church? Write your answer in the space below.

_____ km

46. Look at the diagram below. There are **5 markers** and the **distance between markers is 5 metres**. Pam starts at **marker 1**, runs **directly to marker 2** and **then back to marker 1**. She then runs from **marker 1** to **marker 3** and **back to marker 1**. She **continues in this way** until she has run back from **marker 5** to marker 1.



How far does Pam run **in total**? Write your answer in the space below.

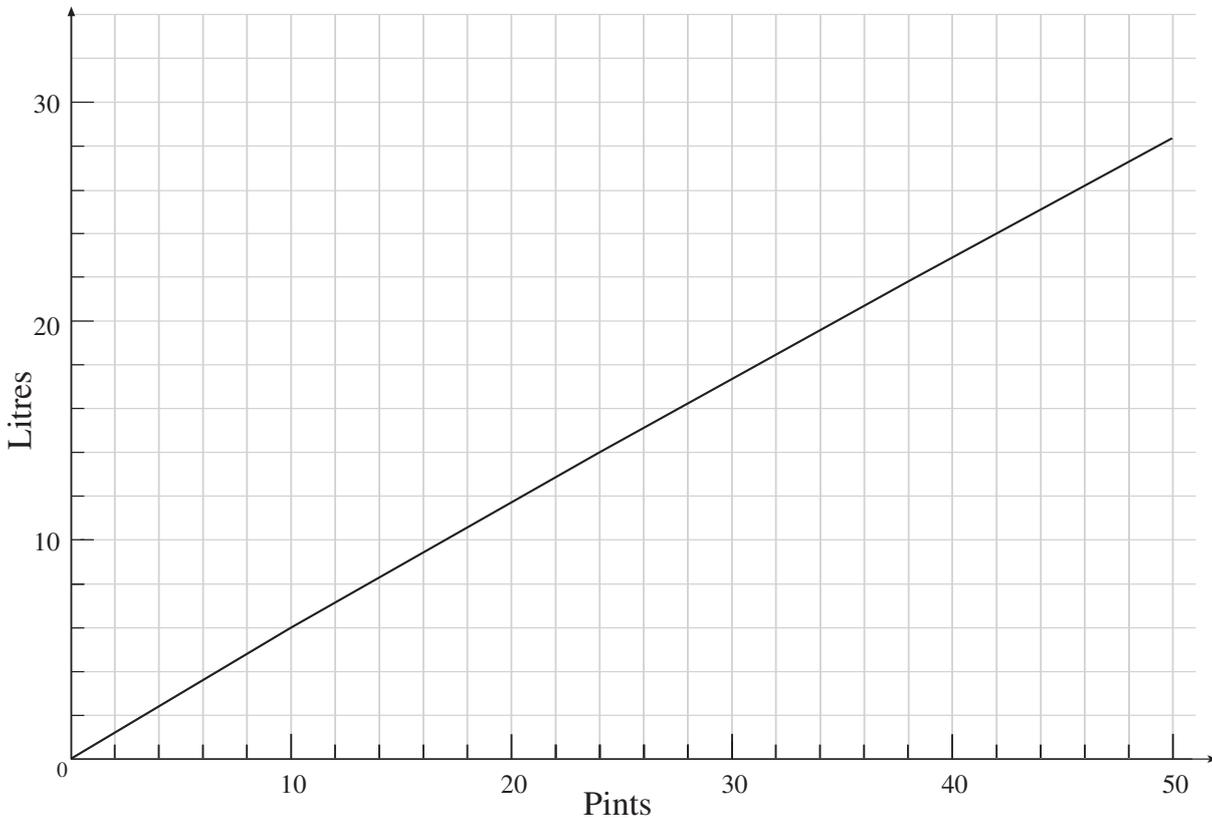
_____ metres

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47. Look at the 3 statements below. Tick True or False for each statement.

	True	False
0.7 is less than 0.71	<input type="checkbox"/>	<input type="checkbox"/>
6.2 is less than 6.02	<input type="checkbox"/>	<input type="checkbox"/>
0.01 is greater than 0.1	<input type="checkbox"/>	<input type="checkbox"/>

48. Paula's graph can be used to convert between pints and litres.



(a) Use her graph to convert 10 pints to litres. Write your answer in the space below.

_____ litres

(b) Use her graph to convert 24 litres to pints. Write your answer in the space below.

_____ pints

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Jane

“Last one in's a rotten egg,” she shouted over her shoulder, her voice distorted by the breeze as I struggled to keep up. Jane ran ahead of me, her pigtails dancing behind her, the checked skirt of her school uniform flapping in the wind.

Jane always took charge. As the eldest, she set the rules and was never awarded the offensive titles with which she crowned her little sister. I was always lagging behind, and had long since given up caring what kind of ‘egg’ I was. My short legs couldn't contend with her long, graceful strides and, although I upheld the pretence of competition, I'd given up trying to win the race home from school.

But still, I was desperate to get there. Our arrival home signalled the beginning of our daily adventures. As soon as our feet were over the threshold of the little family cottage, uniforms were discarded and the constraints of a day's labour were left behind. Mrs Tate's French lessons and Mr Hughes' English class became a thing of the past. We were off on our travels!

Jane raced down the stairs ahead of me, already dressed, and took her position at the head of the couch. I trundled behind her, still pulling my blue sweater over my head as I reached the bottom step. Taking my rightful place behind my big sister, I braced myself for an afternoon of exploration.

“All aboard?” Jane's throaty call mimicked that of a train conductor we had once encountered on a trip to the seaside with our parents.

“Then off we go,” she declared, without checking to see where I was.

And that was it. We were off on our travels! I could see the world with my sister by my side.

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52. Based on your reading of the passage, consider each of the three statements below. Decide if they are **true** or **false**. Tick the box to show your answer.

True **False**

Jane is youngest in the family.

Jane is an only child.

Jane has a younger sister.

53. Look at **paragraph two** in the passage. Which **phrase of three words** describes **how Jane walks on her way home from school**?

Write your answer in the space below.

54. Look at **paragraph three** of the passage. **Why** is the writer **desperate to get home**? Tick the **best** answer below.

She hates wearing her school uniform.

She dislikes going to school every day.

She loves to play with her older sister.

55. Look at **paragraph four** of the passage. Which **two word** phrase tells us that Jane has **changed her clothing**?

Write your answer in the space below.

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