

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

CEA

Common Entrance Assessment

Paper 3

Saturday 4 December 2010

Time: 1 Hour

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

NOT TO BE FILLED IN BY THE PUPIL			
ENGLISH			
Page	Marks	Score	Check
5	(6)		
6	(3)		
11	(3)		
12	(2)		
17	(4)		
18	(6)		
22	(1)		
23	(6)		
24	(1)		
TOTAL 32			
TOTAL SCORE			

Please fill in the following from your admission card:

Your Candidate Number _____

Your Assessment Centre _____

Your Date of Birth _____

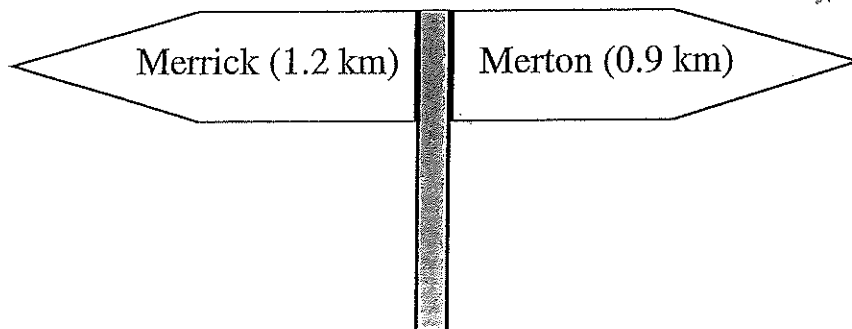
Answer all 58 questions in this booklet

1. Complete the table below by filling in the 4 blank boxes.

Decimal	Fraction	Percentage
0.1		
0.75	$\frac{3}{4}$	75%
		50%

Do not write
in this column

2. Two small towns, called **Merrick** and **Merton**, are connected by a long **straight** road. The signpost below is located on the road between the towns.



What is the **distance** between the 2 towns? Write your answer in the space below.

_____ km

3. The **normal** price of a coat is £64. In a **sale** Christine pays 75% of the **normal** price. **How much** does she pay for the coat in the sale? Write your answer in the space below.

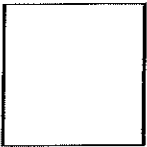
£ _____

7. Bronagh is making shapes using square tiles. The first 3 shapes are shown below.

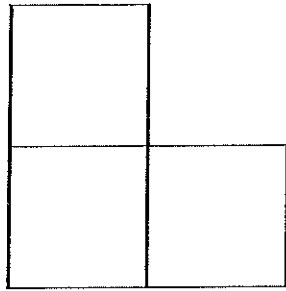
Shape 1 has 1 tile.

Shape 2 has 3 tiles.

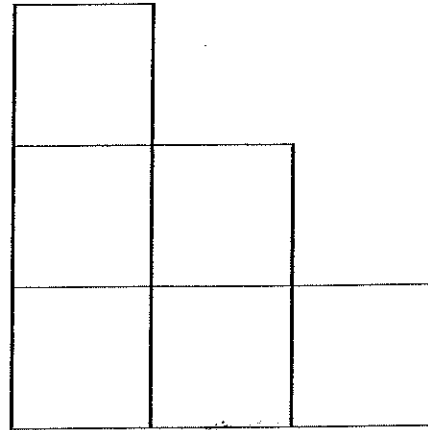
Shape 3 has 6 tiles.



Shape 1



Shape 2



Shape 3

How many tiles are there in Shape 6? Write your answer in the space below.

_____ tiles

8. Look again at the number of tiles in the first 3 shapes. The number of tiles in each shape is called a “**triangular number**”. The first 3 triangular numbers are **1, 3 and 6**. Now look at the 4 numbers below. **Two** of these numbers are triangular numbers. Tick the 2 triangular numbers.

20

45

33

36

Do not write in this column

The Stick Insects in the Museum at Tunbridge Wells

Saturday evening, just on 5pm.
The Library & Museum
Are about to close.

Most of us are at home,
football scores on the television,
tea on the table.

The museum curator secures the strong lid
on the glass case containing the stick insects
in their never-blue world.

Everyone will be busy tomorrow,
only six more shopping days
before Christmas.

The stick insects won't be busy.
They will remain motionless in their
greeny-brown camouflage - all night, all day.

On Saturday night
families will go to the local pantomime,
grandparents to carol concerts, teenagers to parties.

During the drowsiness of Sunday,
one stick insect might, just might,
twist her twiggy body one single centimetre.

By Monday it's up early again,
back to work, back to school
for just a few more days before the holiday.

At 8.30am, the museum curator unlocks
the door to the Library & Museum
and walks through the still, hushed foyer.

She finds one stick insect,
in the shape of an exclamation mark, crawling downstairs
..heading for the exit.

John Rice

Do not write
in this column

Do not write
in this column

9. Look at the **first verse** of the poem. **According to the poem**, only one of the sentences below is **correct**. Tick the correct sentence.

It is very late at night.

The Library is closed.

It is after 5 p.m.

It is Saturday.

10. According to the poem, **how many shopping days** is it **before Christmas**? Write your answer in the space below.

_____ days

11. The four words **television**, **walks**, **early** and **twiggy** are used in the poem. Tick the correct box to show whether each one has been used in the poem as a **verb**, **noun**, **adjective** or **adverb**.

	verb	noun	adjective	adverb
television				
walks				
early				
twiggy				

12. Look at the **five words** listed below. Write the **past tense** of each of the words in the space provided. **Be careful with your spelling**. The first one has been done for you.

secures secured

unlocks _____

remain _____

finds _____

twist _____

13. The word **camouflage** is used in **verse five** of the poem. Look at the three phrases below. Tick the phrase **closest in meaning** to camouflage, as used in the poem.

the case the insects live in

the wearing of a uniform

the use of colour to hide

14. Write the words below in **alphabetical order** in the spaces provided. The first one has been done for you.

stick

scores

still

she

six

scores _____

15. The word **won't** is used in **verse five** of the poem. Look at the four pairs of words below. Tick the **pair of words** which means the same as won't as used in the poem.

will not

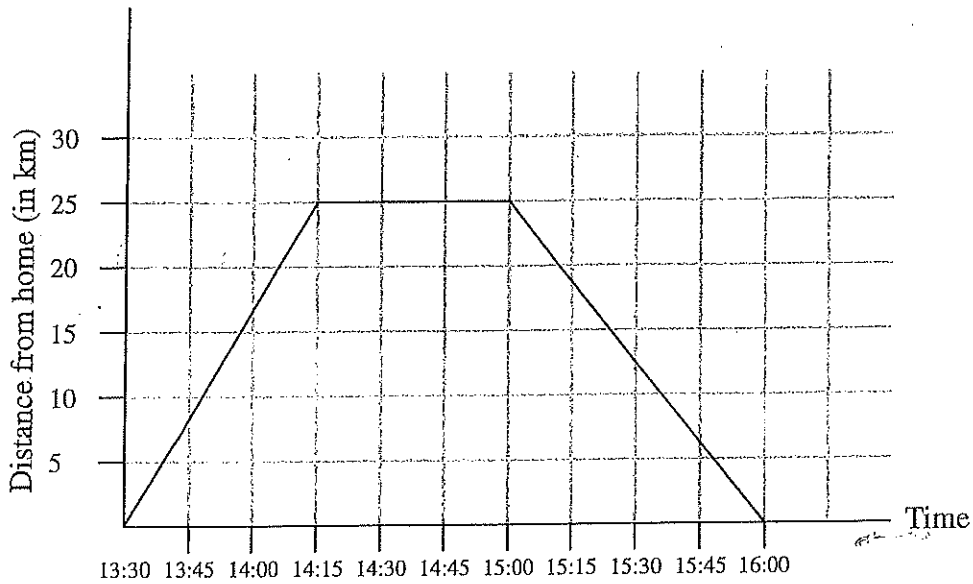
want not

would not

were not

Do not write
in this column

16. Mrs Mooney drives from home to the airport to collect her daughter. She spends some time at the airport and then drives home with her daughter. Mrs Mooney's journey is shown on the graph below.



How far is it from her home to the airport? Write your answer in the space below.

_____ km

17. How long did Mrs Mooney spend at the airport? Write your answer in the space below.

_____ minutes

Do not write
in this column

18. Danielle uses her calculator to carry out the calculation:

$$24.3 \times 5.9 = 143.37$$

Look at the calculations below.

Tick the **two** calculations that give the answer **143.37**

You may use Danielle's calculation to help you.

$$2.43 \times 590 \quad \square$$

$$2.43 \times 5.9 \quad \square$$

$$2.43 \times 59 \quad \square$$

$$24.3 \times 59 \quad \square$$

$$243 \times 0.59 \quad \square$$

Do not write
in this column

19. Normal body temperature is 36.8°C . Paula was not feeling well so she went to see the school nurse. The nurse took her temperature and it was 38.6°C . How much was her temperature **above normal**? Write your answer in the space below.

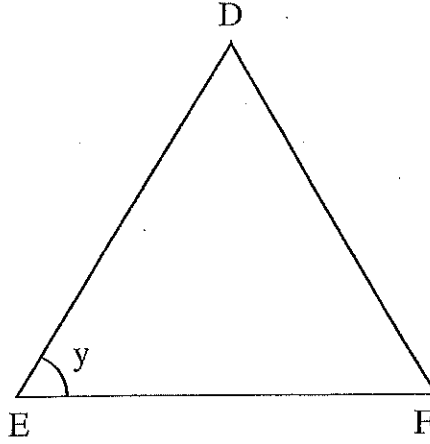
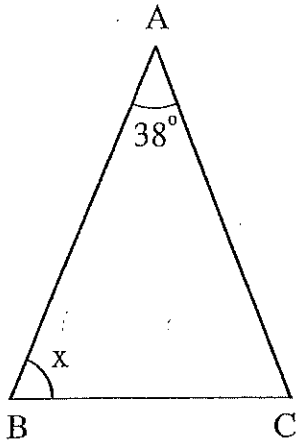
_____ $^{\circ}\text{C}$

20. Look at the **2 calculations** below. Complete each calculation by writing the correct number in the space below.

(a) $7^2 - 16 =$ _____

(b) $5^2 - 17.2 =$ _____

21. Look at the 2 triangles below. The triangle ABC is isosceles. The sides AB and AC are the same length. The triangle DEF is equilateral.



By how many degrees is angle x greater than angle y ? Write your answer in the space below.

_____ 0

22. Look at the statement below. Write a number in the box to make the statement true.

Seven tenths is the same as hundredths.

23. A carton containing 1.75 litres of orange juice costs £2.45.

- (a) What is the cost of a quarter litre of orange juice? Write your answer in the space below.

_____ pence

- (b) What is the cost of orange juice per litre? Write your answer in the space below.

£ _____

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

The Mask of Dimitrios

The train reached the frontier in the early hours (line 1)
of the morning and he was awakened by the (line 2)
attendant for his papers. Mr Peters was still reading. (line 3)
His papers had already been examined by the Greek (line 4)
and Bulgarian officials in the corridor outside and (line 5)
Latimer did not have an opportunity of ascertaining (line 6)
the nationality of the citizen of the world, A Bulgarian (line 7)
customs official put his head in the compartment, (line 8)
frowned at their suitcases and then withdrew. Soon the (line 9)
train moved on over the frontier. Dozing fitfully, Latimer (line 10)
saw the thin strip of sky between the blinds turn blue-black (line 11)
and then grey. The train was due at Sofia at seven. (line 12)
When, at last, he rose to dress and collect his belongings, (line 13)
he saw that Mr Peters had switched of his reading lamp (line 14)
and had his eyes closed. As the train began to rattle over (line 15)
the network of points outside Sofia, he gently slid the (line 16)
compartment door open. (line 17)

Mr Peters stirred and opened his eyes. (line 18)
‘I’m sorry,’ said Latimer, ‘I tried not to waken you.’ (line 19)
In the semi-darkness of the compartment, the fat man’s (line 20)
smile looked like a clown’s grimace. ‘Please don’t trouble (line 21)
yourself about me,’ he said. ‘I was not asleep. I meant to (line 22)
tell you that the best hotel for you to stay at would be the (line 23)
Slavianska Bessedra.’ (line 24)
‘That’s very kind of you, but I wired a reservation from (line 25)
Athens to the Grand Palace. It was recommended to me. (line 26)
Do you know it.’ (line 27)
‘Yes. I think it’s quite good.’ The train began to slow down. (line 28)
‘Goodbye, Mr Latimer.’ (line 29)
‘Goodbye.’ (line 30)
In his eagerness to get to a bath and some breakfast it did (line 31)
not occur to Latimer to wonder how Mr Peters had (line 32)
discovered his name. (line 33)

Eric Ambler

27. In one line of the passage a comma has been used incorrectly. A full stop rather than a comma should have been used. Tick the number of the line in which this error was made.

line 7

line 10

line 13

line 22

28. 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 11

line 16

line 25

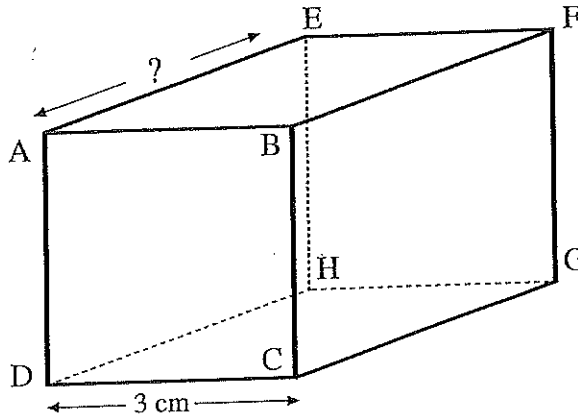
line 26

Do not write
in this column

29. Complete the calculation below by writing the correct **decimal number** in the box.

$\times 8 = 75.2$

30. Look at the cuboid below.



ABCD is a square. Each side of the square is **3cm**. The **volume** of the cuboid is **36cm^3** . What is the **length** of the line **AE**? Write your answer in the space below.

_____ cm

31. Ross bought **5 items** in a supermarket. His receipt is shown below.

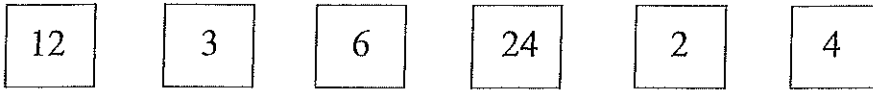
Milk	
Eggs	£0.91
Bread	£1.34
Juice	£0.49
Meat	£3.25
Total	£6.87

The price of the milk has been torn off the receipt. How much was the milk? Write your answer in the space below.

£ _____

Do not write in this column

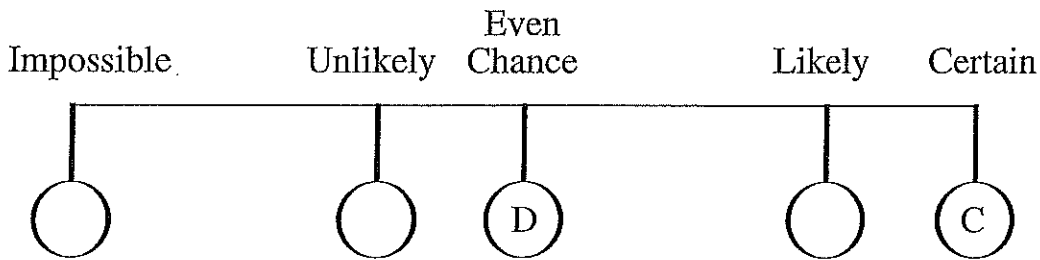
32. Look at the 6 cards below. Each has a number on it. These cards are shuffled and placed face down on a table so that the number on each card cannot be seen.



One card is picked at random and turned over. Look at the following 5 statements:

- A. There is an **even number** on the card.
- B. There is a **number less than 2** on the card.
- C. There is a **factor of 24** on the card.
- D. There is a **multiple of 6** on the card.
- E. There is a **prime number** on the card.

Write the letters A to E in the circles below to **match a probability to each statement**. Two have been done for you.



33. Four athletes competed in the long jump. The **distance** each athlete jumped is recorded in the table below.

Athlete	Distance jumped
John	195.8 cm
Gerard	1.956 m
Bernard	196 cm
James	1957 mm

Which athlete's jump was the longest? Write the **name** of the athlete in the space below.

Do not write in this column

Mr Nobody

I know a funny little man,
as quiet as a mouse.
He does the mischief that is done
in everybody's house.
Though no one ever sees his face,
yet one and all agree
that every plate we break, was cracked
by Mr Nobody.

It's he who always tears our books,
who leaves the door ajar.
He picks the buttons from our shirts,
and scatters pins afar.
That squeaking door will always squeak
For reader, don't you see?
We leave the oiling to be done
by Mr Nobody.

He puts damp wood upon the fire,
that kettles will not boil:
His are the feet that bring in mud
and all the carpets soil.
The papers that so often are lost -
Who had them last but he?
There's no one tosses them about
but Mr Nobody.

The fingerprints upon the door
by none of us were made.
We never leave the blinds unclosed
to let the curtains fade.
The ink we never spill! The boots
that lying round you see,
are not our boots - they all belong
to Mr Nobody.

Anonymous

Do not write
in this column

37. Look at the **three words** below. Which of these words **best** describes the poem? Tick the correct box below.

serious

humorous

sad

38. Look at the **first two verses of the poem**. Find the **words in these two verses** which are **closest in meaning** to each of the words below. Write your chosen word in the space provided.

amusing _____

open _____

rips _____

naughtiness _____

39. Look at the **three phrases** below. Each phrase is **used in the poem**. Tick the phrase which shows that the poem is **set in the past**.

The fingerprints upon the door

The ink we never spill!

He picks the buttons from our shirts

Do not write
in this column

44. At a bank in the airport, £1 can be exchanged for 1.1 euro. Look at the 4 statements below. One statement is more accurate than the others. Tick the most accurate statement.

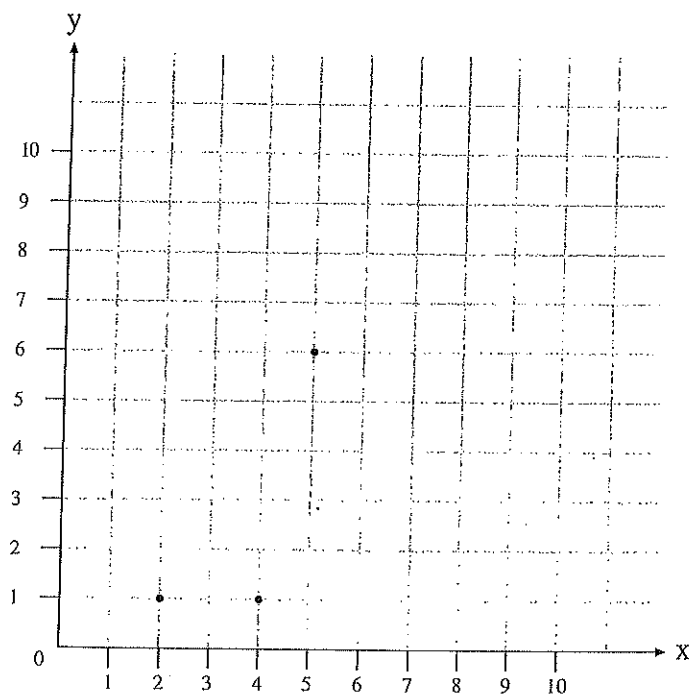
1 euro can be exchanged for about 60p

1 euro can be exchanged for about 70p

1 euro can be exchanged for about 80p

1 euro can be exchanged for about 90p

45. Three of the vertices of a parallelogram are shown by dots in the grid below.



Two possible points for the fourth vertex can be drawn on the grid. Write the coordinates of the 2 points in the spaces below.

(,) (,)

6. A number is made up of 3 tenths, 4 tens and 5 hundreds. Jane divides this number by 10. What decimal number does Jane get? Write your answer in the space below.

Do not write in this column

47. Tick the fraction below which is **nearest** in value to 25%

$\frac{1}{3}$

$\frac{7}{24}$

$\frac{1}{6}$

$\frac{3}{8}$

48. Look at the statement below.

$a + 3.2 = 5.1$

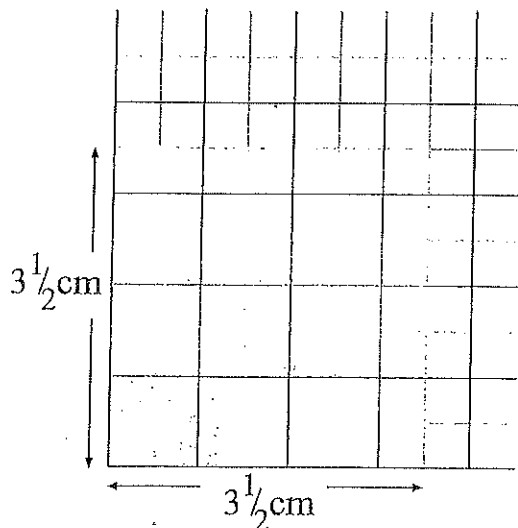
Use **this statement** to complete the 2 statements below.

Write your answers in the spaces below.

$a + 12.3 = \underline{\hspace{2cm}}$

$12.3 - a = \underline{\hspace{2cm}}$

49. Look at the **square** below. Each of its sides is $3\frac{1}{2}$ cm long.

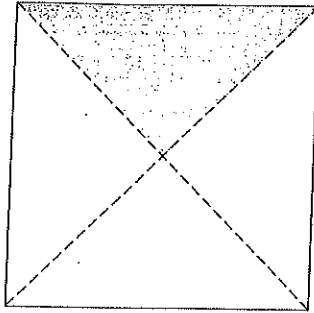


You must work out an **accurate** value for the **area** of the square. Write your answer as a decimal or a fraction in the space below.

$\underline{\hspace{2cm}}$ cm²

Do not write in this column

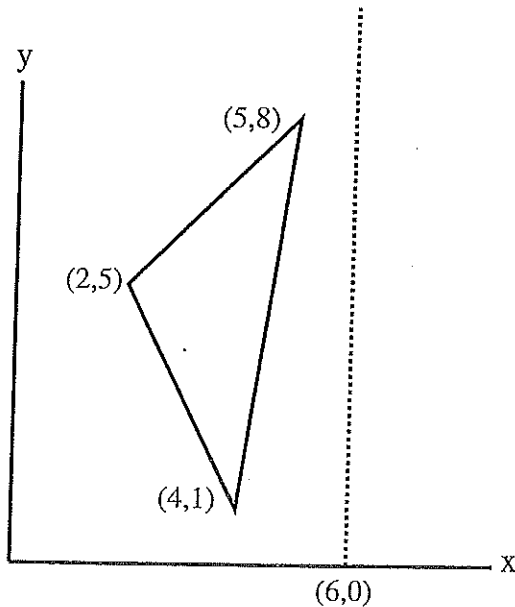
50. Look at the **square** below.



The area of the **shaded triangle** is 9 cm^2 . Find the **perimeter** of the **square**. Write your answer in the space below.

_____ cm

51. The diagram below shows a **triangle**. This triangle is to be **reflected** in the **dotted mirror line**. The **dotted line** passes through the point with **coordinates (6, 0)** and is **parallel to the y axis**. Each of the **3 vertices** of the triangle is reflected to give **3 new points**. These are joined to form a **new triangle**.



Complete the table below by writing in the **coordinates** of the **vertices** of the new triangle. Two vertices have been done for you.

Vertex	Reflected Vertex
(5, 8)	(7, 8)
(2, 5)	(10, 5)
(4, 1)	

Do not write in this column

Thirteen

Something about the old house made Katie pause before she took out her keys and let herself in. The front door creaked on its hinges and the whole upstairs was dark and silent; empty. Katie was alone. She and her parents had moved into the old house at the end of the street three weeks ago and she still couldn't get used to how spooky it was at times. The only good part that Katie could see was that it was just a brisk walk away from her best friend Elizabeth's house and that her parents let the girls walk back and forth by themselves.

Behind her, the rusty gate swung and clanged and a few stray leaves tangled in the mess of the front garden. The ghostly white paint curled off the splintered boards and the dirty windows rattled in their frames. The house didn't seem to want Katie there on the lonely front porch - its boards shrieked in protest when she walked in.

Katie told herself she was being silly. Now that she was thirteen, she wasn't afraid of the dark. This didn't stop her from walking quickly to the light switch on the far wall and it didn't stop a shiver from running through her when she flicked the switch and nothing happened. The lights were out - another one of dad's D-I-Y disasters. Katie pulled out her phone and used the blue screen to pick out the ladder leaning against the kitchen door.

Her parents were in the middle of fixing up the old place and sheets were thrown over tables and chairs and paintings to keep them from getting messy with all the paint flying around. The sheets moved in the breeze and the bones of wooden boards sticking out at odd angles made Katie's heart flutter like a trapped bird in her chest. They looked like ghosts in the moonlight. Where was everyone?

52. Look at the four words below. Based on your reading of the passage, which word best describes Katie's new home? Select the word by ticking a box below.

comfortable

homely

isolated

creepy

Do not write
in this column

58. Look at the four sentences below. Only one of the sentences is true. Based on your reading of the passage, tick the true sentence.

Katie is trying to be brave even though she is alone in the house in the dark.

Katie is frightened because she sees ghosts in the old house and shrieks in fear.

Katie is unable to see anything at all because the lights are out in the house.

Katie is unhappy in the house and cannot think of anything good about living there.

Do not write
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