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

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

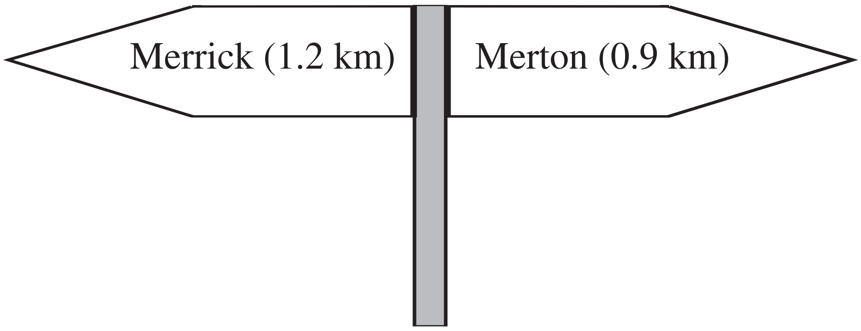
NOT TO BE FILLED IN BY THE PUPIL				
MATHEMATICS				
Page	Marks	Score	Check	
1	(3)			
2	(3)			
3	(2)			
7	(2)			
8	(3)			
9	(3)			
13	(3)			
14	(2)			
15	(3)			
19	(3)			
20	(3)			
21	(2)			
TOTAL 32				

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				

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

Decimal	Fraction	Percentage
0.1		
0.75	$^3/_4$	75%
		50%

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.

£ __________

(3)

GO STRAIGHT TO PAGE 2

Do not write in this column

4. A map has the following scale:

1 centimetre represents 8 kilometres.

The distance between 2 towns **on the map** is **6.2 cm**. What is the **actual distance** between the 2 towns in **kilometres**?
Write your answer in the space below.

__________ km

---

5. Write **567 minutes** in **hours** and **minutes**. Write your answer in the spaces below.

_______ hours _______ minutes

---

6. I am facing **East**. Through **how many degrees** must I turn **clockwise** to face **North West**? Write your answer in the space below.

__________ o

(3)

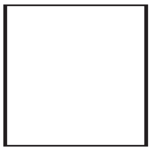
Do not write in this column

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

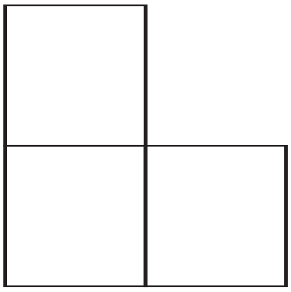
Shape 1 has 1 tile.

Shape 2 has 3 tiles.

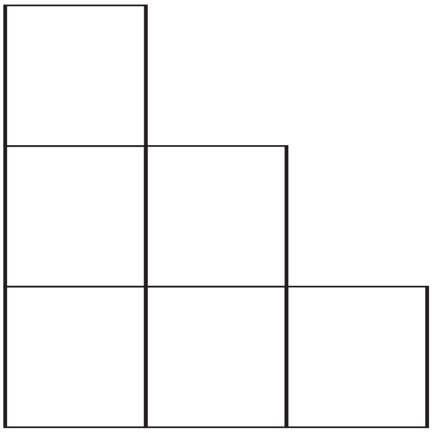
Shape 3 has 6 tiles.



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 ☐

(2)

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

GO STRAIGHT TO PAGE 5

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 ____________

(6)

GO STRAIGHT TO PAGE 6

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 ☐

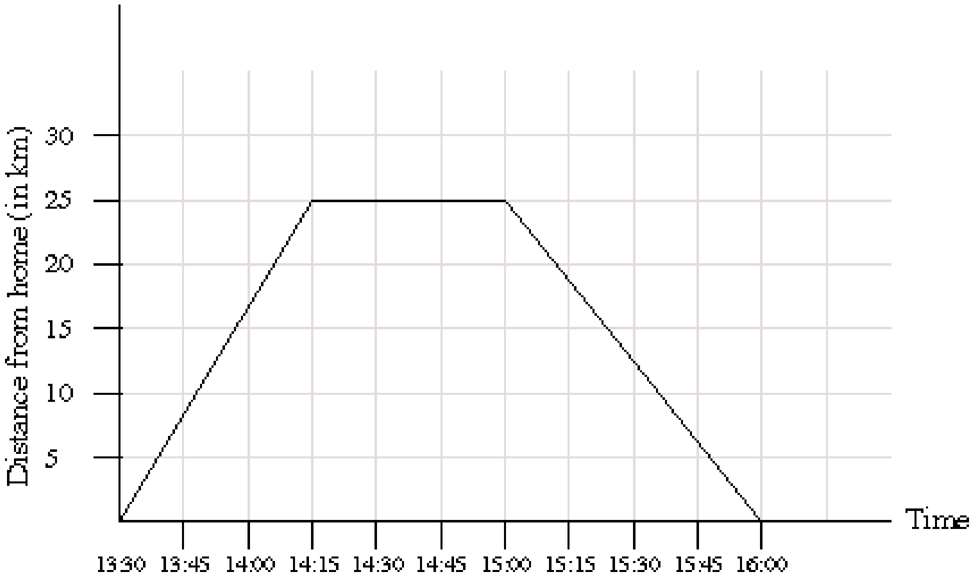
were not ☐

GO STRAIGHT TO PAGE 7

(3)

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

(2)

GO STRAIGHT TO PAGE 8

Do not write in this column

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

24.3 x 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 x 590 ☐

2.43 x 5.9 ☐

2.43 x 59 ☐

24.3 x 59 ☐

243 x 0.59 ☐

---

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

__________ ^{o}C

---

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

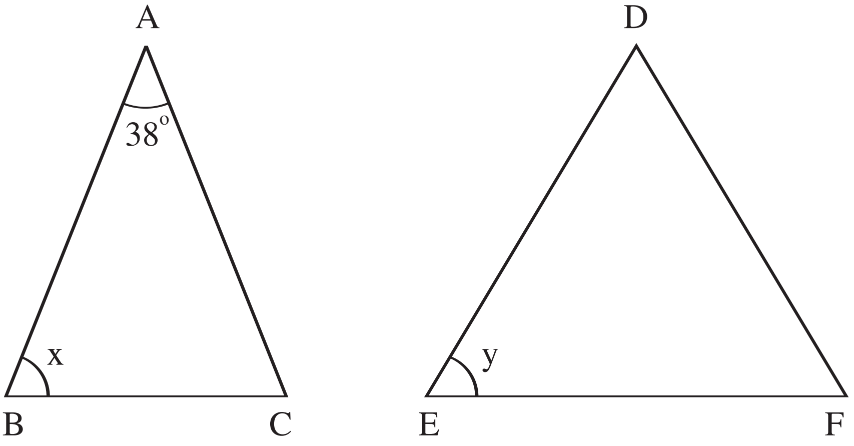
(a) $7^2 - 16 =$ __________

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

(3)

Do not write in this column

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.

__________ o

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.

£ __________

(3)

GO STRAIGHT TO PAGE 10

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.

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 natonality 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 Besseda.” (line 24)
“Thats 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

GO STRAIGHT TO PAGE 11

24. Each line of the passage is numbered. A question mark is needed instead of a full stop in one of the lines of the passage. Tick ☑ the number of the line in which the question mark is needed.

line 19 ☐

line 22 ☐

line 27 ☐

line 28 ☐

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

line 4 ☐

line 7 ☐

line 20 ☐

line 31 ☐

26. A word has been used incorrectly in one of the lines of the passage. Tick ☑ the number of the line containing the incorrect word.

line 2 ☐

line 8 ☐

line 14 ☐

line 20 ☐

(3)

GO STRAIGHT TO PAGE 12

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 ☐

(2)

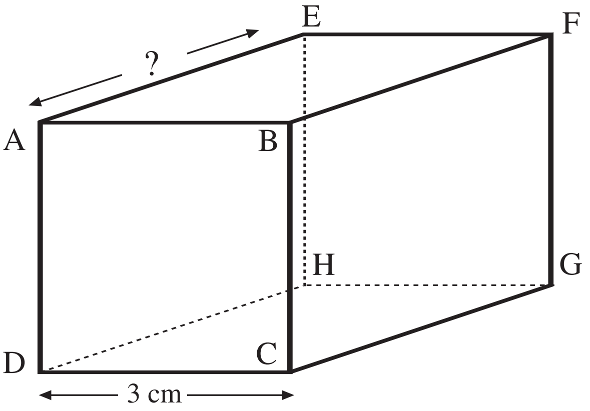
GO STRAIGHT TO PAGE 13

Do not write in this column

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

☐ x 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.

£___________

(3)

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**.

12 3 6 24 2 4

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

A. There is an **even number** on the card.

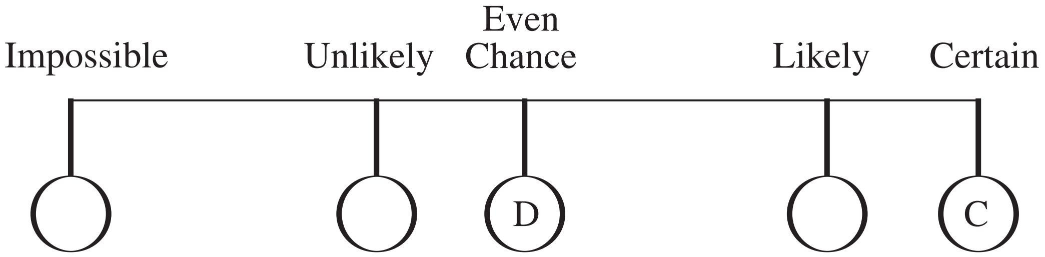
B. There is a **number less than 2** on the card.

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.

____

(2)

GO STRAIGHT TO PAGE 15

Do not write in this column

34. Look at the 4 **numbers written in words** below. Write each as a **decimal number**. Write your answers in the spaces below. The first has been done for you.

nine and one half 9.5

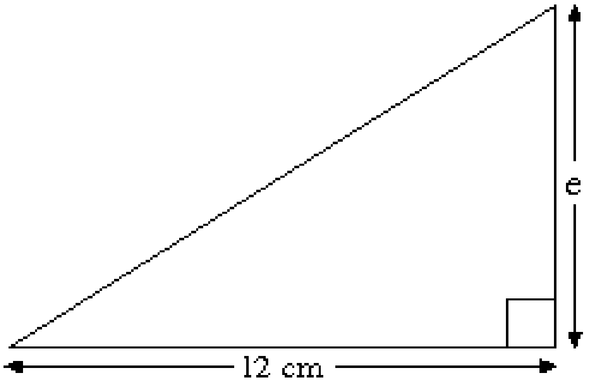
twenty and one quarter _______

seven and three quarters _______

seven tenths _______

---

35. The **area** of the **triangle** below is **36 cm^2**



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

___________ cm

---

36. Look at the rule below:

Double the previous number and subtract $\frac{1}{3}$

You must use this rule to write a sequence of **4** numbers. The first 2 numbers in the sequence are done for you. Write the **next 2 numbers** in the spaces below.

12 $23\frac{2}{3}$ ________ ________

(3)

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

GO STRAIGHT TO PAGE 17

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 ☐

(4)

GO STRAIGHT TO PAGE 18

Do not write in this column

40. Look at the **three pairs of words** highlighted in the short passage below. In each pair only one of the words is spelt correctly. **Circle** the **correct spelling** for each pair of words.

The poet beleives believes that Mr Nobody is to blame for other people's misbehaviour. He is described as a mischievous mischeivous character in the poem. The poet seizes siezes every opportunity to tell us about the activities of Mr Nobody.

41. Look at **verse four** of the poem. A **word** in verse four means the same as the words **gradually lose colour**. Write the word in the space below.

____

42. At the **end of the poem** the word **Anonymous** is written. What does the word Anonymous tell us? Look at the **four answers** below. Tick ☑ the box opposite the **best** answer.

The word Anonymous tells us that

the man who wrote the poem is unknown. ☐

the woman who wrote the poem is unknown. ☐

the person who wrote the poem is unknown. ☐

the person who wrote the poem is called Anonymous. ☐

43. A **prefix** is a group of letters placed in front of a word to make a new word. The four prefixes **in**, **un**, **dis** and **non** can change the meaning of a word to the opposite meaning. Choose one of these four prefixes to make each of the following words into **a word of the opposite meaning**. Write your answers in the spaces provided. The first one has been done for you.

sense nonsense

happy ______________

respectful ______________

audible ______________

(6)

GO STRAIGHT TO PAGE 19

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** ☐

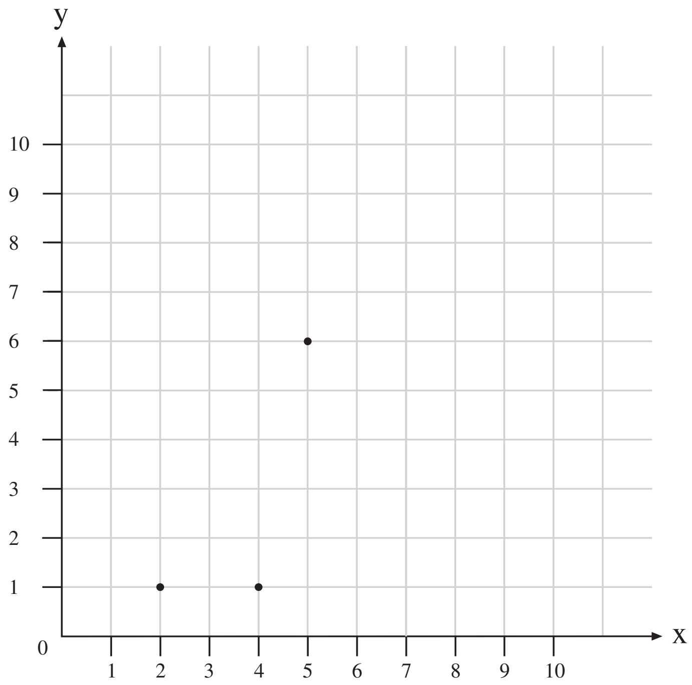
1 euro can be exchanged for about **70p** ☐

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.

(,) (,)

---

46. 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.

____

(3)

GO STRAIGHT TO PAGE 20

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

$^1/_3$ ☐

$^7/_{24}$ ☐

$^1/_6$ ☐

$^3/_8$ ☐

---

48. Look at the statement below.

a + 3.2 = 5.1

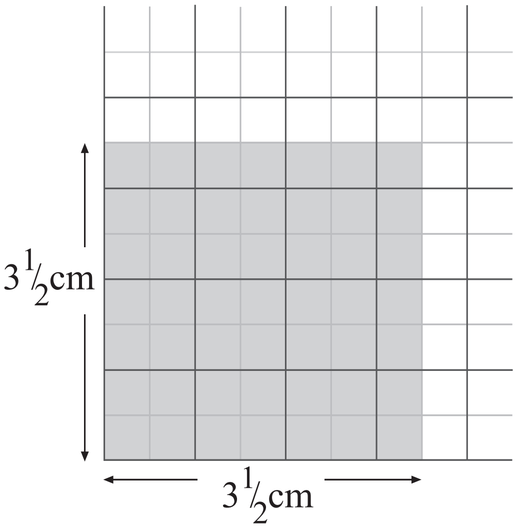
Use this statement to complete the **2 statements** below.
Write your answers in the spaces below.

a + 12.3 = ____________

12.3 - **a** = ____________

---

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



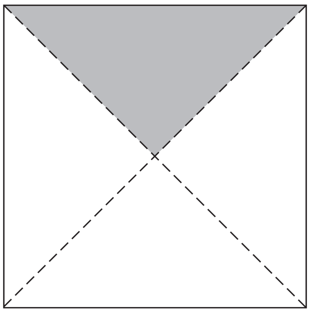
You must work out an **accurate** value for the **area** of the square. Write your answer as a decimal or a fraction in the space below.

____________ cm^2

(3)

Do not write in this column

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

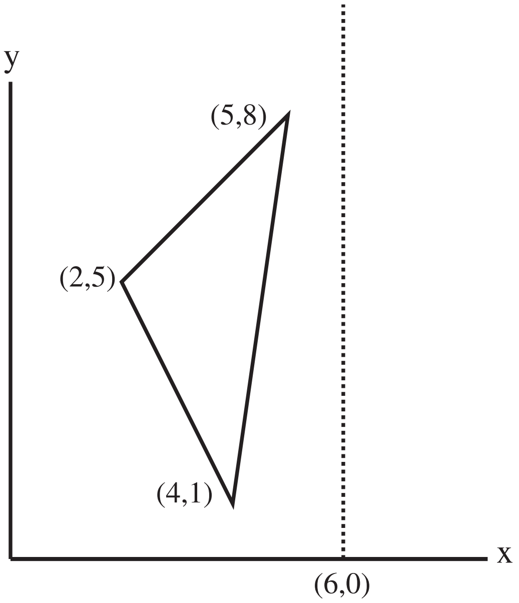


The area of the **shaded triangle** is **9 cm^2**. Find the **perimeter** of the **square**. Write your answer in the space below.

_________ 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)	

(2)

GO STRAIGHT TO PAGE 22

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 ☐

(1)

GO STRAIGHT TO PAGE 23

Do not write in this column

53. Look at the **last sentence of paragraph one** in the passage. The word **brisk** is used in this sentence. What is the meaning of brisk? Select the **best** meaning by ticking ☑ a box below.

pleasant ☐

quick ☐

steady ☐

uphill ☐

54. Look at **paragraph two** of the passage. In this paragraph find **three verbs** which **relate to sounds**. Write your answers in the spaces below.

______________ ______________ ______________

55. 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 and her family will be moving house on her thirteenth birthday. ☐

Katie and her family have been living in the old house for thirteen years. ☐

Katie and her family have been in the old house for three weeks. ☐

Katie and her family are staying with her friend Elizabeth for three weeks. ☐

56. Look at **paragraph three**. Find the word in the paragraph **closest** in meaning to **catastrophes**. Write your answer in the space below.

____

57. Look at **paragraph four**. Which **phrase** in paragraph four tells us that the **renovations** to the house **aren't finished**? You may use **from four to nine words** in your phrase. Write your answer in the space below.

____

(6)

GO STRAIGHT TO PAGE 24

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. ☐

(1)

LOOK OVER YOUR PAPER UNTIL TIME IS UP.
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