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

CEA

Common Entrance Assessment

Paper 1

Saturday 13 November 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	(2)			
2	(3)			
3	(3)			
7	(2)			
8	(4)			
9	(2)			
13	(2)			
14	(2)			
15	(3)			
16	(1)			
20	(4)			
21	(4)			
TOTAL 32				

NOT TO BE FILLED IN BY THE PUPIL

ENGLISH

Page	Marks	Score	Check	
4	(2)			
5	(5)			
6	(2)			
10	(1)			
11	(3)			
12	(1)			
17	(2)			
18	(6)			
19	(2)			
22	(2)			
23	(6)			
TOTAL 32				
TOTAL SCORE				

Do not write in this column

1. The temperature in London is **11 °C** and the temperature in Moscow is **-18 °C**. What is the **difference** between the 2 temperatures?
Write your answer in the space below.

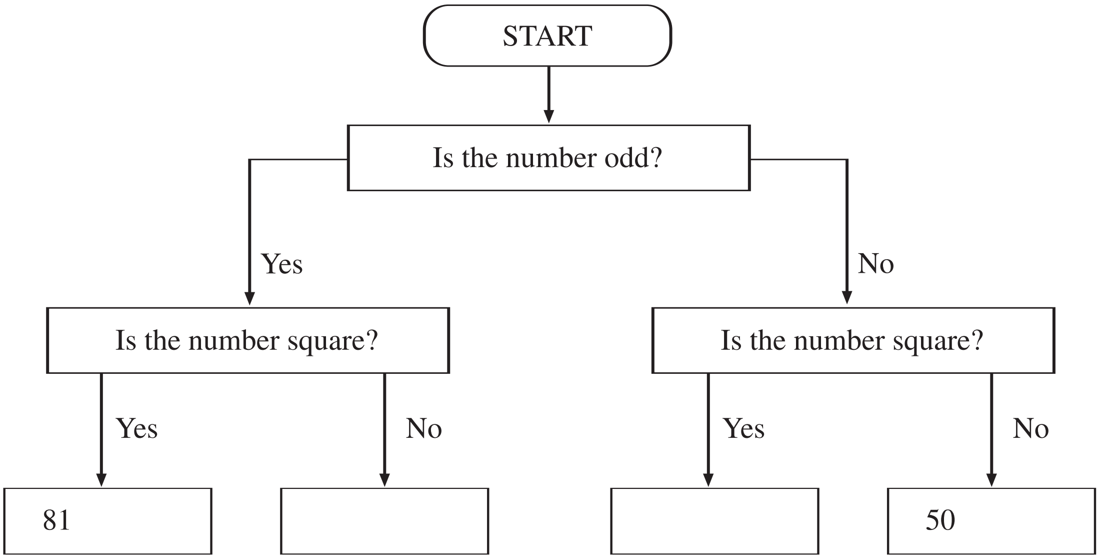
__________ °C

---

2. Look at the **6 numbers** in the box below.

20	25	45
50	64	81

Now look at the decision tree below.


START
Is the number odd?
Yes
No
Is the number square?
Yes
No
Is the number square?
Yes
No
81
50

Write **each of the numbers** in the **correct box** of the decision tree.
Two of the **numbers** have already been **put in the correct boxes**.
Write each of the remaining numbers in the correct box. You may have more than one number in a box.

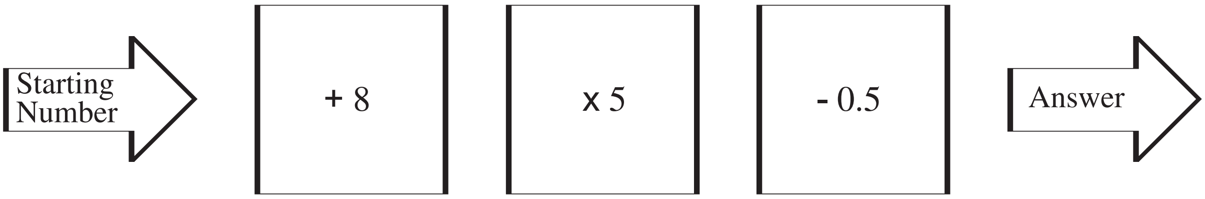
---

(2)

GO STRAIGHT TO PAGE 2

Do not write in this column

3. Look at the function machine below.

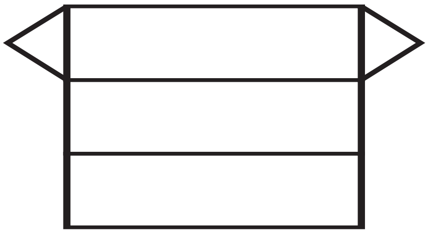


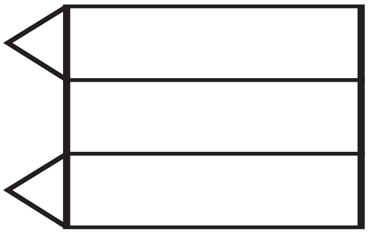
What answer does this function machine give when the **starting number** is **12**? Write your answer in the space below.

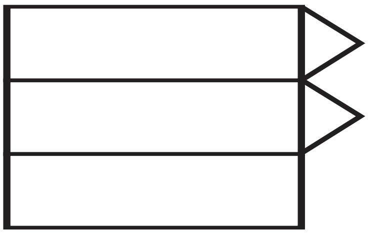
____

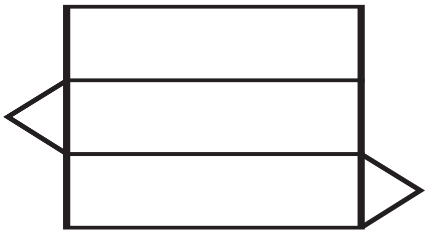
---

4. **Two** of the 4 figures below **could be** the **net** of a **triangular prism**. **Circle** the 2 figures that could be nets of a triangular prism.









---

5. The pairs of fractions in (a) and (b) below are **equivalent fractions**. Write the **missing numbers** in the boxes.

(a) $\frac{3}{\square} = \frac{9}{15}$

(b) $\frac{\square}{9} = \frac{35}{63}$

(3)

GO STRAIGHT TO PAGE 3

6. Write **110 hours** in **days** and **hours**.
Write your answer in the spaces below.

______ days ______ hours

---

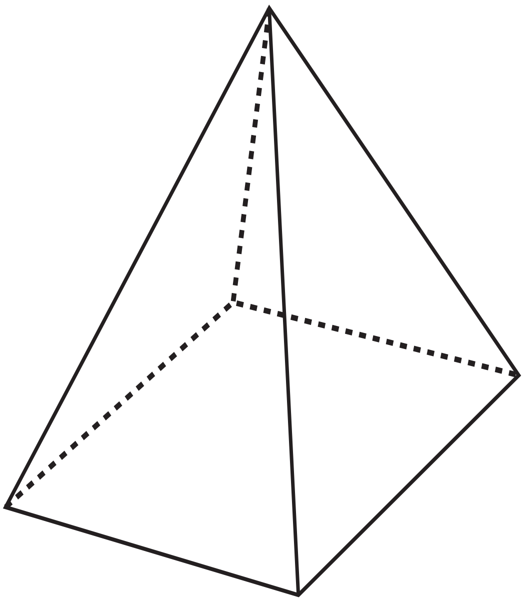
7. **Complete these calculations** by writing an answer in each of the two spaces below.

(a) 1749 + 5862 = ________

(b) 3687 + ________ = 5604

---

8. Look at the **square pyramid** below.



Complete the table below to show the number of **faces**, **edges** and **vertices** in the pyramid. Write your answers in the boxes below.

Faces	Edges	Vertices

(3)

Grandma Was Eaten by a Shark

Grandma was eaten by a shark,
Dad, by a killer whale,
And my baby brother got slurped up,
By a rather hungry sea snail.

A cuttlefish cut my mum to bits,
An octopus strangled my sister,
A jellyfish stung my auntie's toes,
Giving her terrible blisters.

A puffer fish poisoned my grandpa,
A dogfish ate my cat,
And then a catfish ate my dog,
I was very upset about that.

So you go for a swim if you like,
Just don't ask me to come too,
I'm staying here with my camera,
I can't wait to see what gets you!

Andrea Shavick

Do not write in this column

9. Look at the **three words** below. Which word **best** describes the poem? Select the word by ticking ☑ a box below.

serious ☐

humorous ☐

factual ☐

10. **Where** do all the creatures in the poem **live**? Tick ☑ the correct answer below.

in the sky ☐

in the forest ☐

in outer space ☐

in the sea ☐

(2)

GO STRAIGHT TO PAGE 5

11. The words **to** and **too** sound the same but are used differently. In the **two sentences** below James and Sean are discussing the poem. Complete each sentence by writing the word **to** or **too** in each of the blank spaces.

"I am going ___ read this poem ___ my mum!" said James.

"Me ___ because I really liked it," replied Sean.

12. This poem rhymes. Which **word** from the poem **rhymes** with **snail**? Write the word in the space below.

____

13. Look at **verse two** of the poem. Which **adjective** is used to describe **Auntie's blisters**? Write the adjective in the space below.

____

14. Look at the **four statements** below. **According to the poem only one** of these four statements is **true**. Tick ☑ the true statement.

The poet didn't care that a catfish ate her dog. ☐

Her auntie had her toes stung by a jellyfish. ☐

Her grandmother was poisoned by a puffer fish. ☐

She is very keen to go for a swim. ☐

GO STRAIGHT TO PAGE 6

(5)

Do not write in this column

15. In the poem the word **toes** is used. The word toes is the **plural** of toe. Write the **plural** of each of the words below in the space provided. **Be careful with your spelling.**

baby ________________

shark ________________

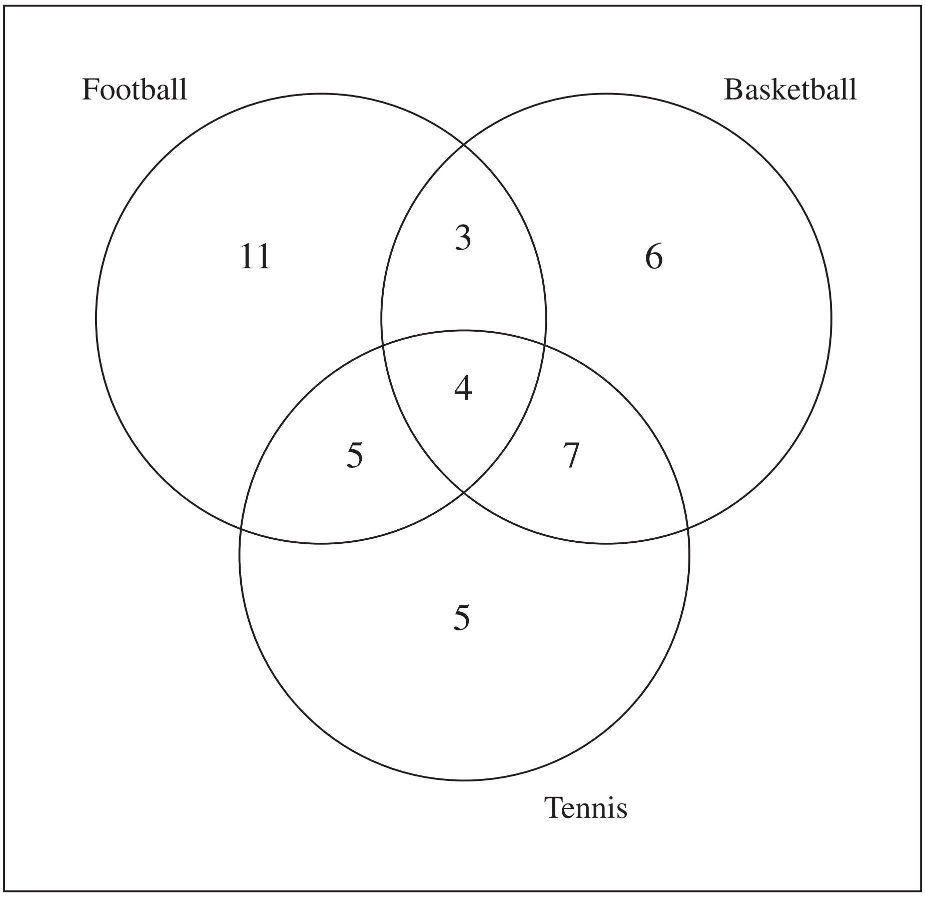
piano ________________

potato ________________

(2)

GO STRAIGHT TO PAGE 7

16. A youth club has facilities for **football**, **basketball** and **tennis**. The Venn diagram below shows the number of youth club members who play these sports.



How many members play basketball **and** tennis **but not** football? Write your answer in the space below.

____

17. Look at the numbers below. Tick ☑ the number in which **5** stands for **five tenths**.

409.15 ☐

315.3 ☐

267.5 ☐

153.8 ☐

(2)

18. The **normal** price of a games console is **£190**. In a **sale** it is **reduced by 25%**. **How much does Pamela pay** for it in the sale?
Write your answer in the space below.

£ ___________

---

19. In **2011** the **8th October** will fall on a **Saturday**. **What day** will the **8th November 2011** fall on? Write your answer in the space below.

____

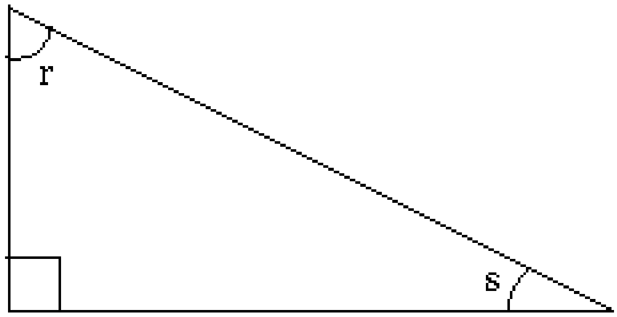
---

20. What is **half of 9.2**? Write your answer in the space below.

____

---

21. Look at the **right-angled triangle** below.



Angle **r** is **50^{o} bigger than** angle **s**. What is the size of angle **s**?
Write your answer in the space below.

___________ o

(4)

22. Mr Danker makes chocolates. He has **391 chocolates**. He wants to put the chocolates in 23 boxes. Each box must contain the **same number of chocolates**. Look at the 4 calculations below. Tick ☑ the calculation Mr Danker must do to work out **how many chocolates go in each box**.

391 - 23 ☐

23 ÷ 391 ☐

391÷23 ☐

23 - 391 ☐

---

23. Look at the **2 times** below. Write each as a **24 hour clock** time. Write your answers in the spaces below.

3.15 a.m. ____________

7.45 p.m. ____________

GO STRAIGHT TO PAGE 10

(2)

Do not write in this column

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

School Swimming Lessons

Dear Headmaster, (line 1)
I am one of your pupils, and this is the first letter to you that Ive ever (line 2)
written. I would like to talk to you about our swimming lessons. (line 3)
I think that they are too short. We only get thirty-five minutes (line 4)
and buy the time we get changed in and out of our clothes, there (line 5)
is no time for swimming. (line 6)

Also, I think that the pool is in bad condision. The sides are very (line 7)
slippery and the pool does not get cleaned very often. (line 8)
I hope that you don’t think that I am moaning just for the sake of it, (line 9)
My friends agree with me and think that I should write to you. (line 10)
I would like you to think about what I have to say. Do you think (line 11)
that you might speak to me about this. (line 12)
Thank you for your time. (line 13)

Yours faithfully, (line 14)
Peter Smith (line 15)

24. Each line of Peter's letter is numbered. In one line of the letter a question mark is needed instead of a full stop. Tick ☑ the number of the line where a question mark is needed.

line 6 ☐

line 8 ☐

line 11 ☐

line 12 ☐

(1)

GO STRAIGHT TO PAGE 11

25. In one line of Peter's letter 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 2 ☐

line 5 ☐

line 7 ☐

line 9 ☐

26. A word has been used incorrectly in Peter's letter. Tick ☑ the number of the line where the error was made.

line 3 ☐

line 5 ☐

line 8 ☐

line 9 ☐

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

line 3 ☐

line 7 ☐

line 9 ☐

line 10 ☐

(3)

GO STRAIGHT TO PAGE 12

Do not write in this column

28. An apostrophe is missing from one of the words in Peter’s letter. Tick ☑ the number of the line containing the word with the missing apostrophe.

line 2 ☐

line 7 ☐

line 10 ☐

line 14 ☐

(1)

GO STRAIGHT TO PAGE 13

Do not write in this column

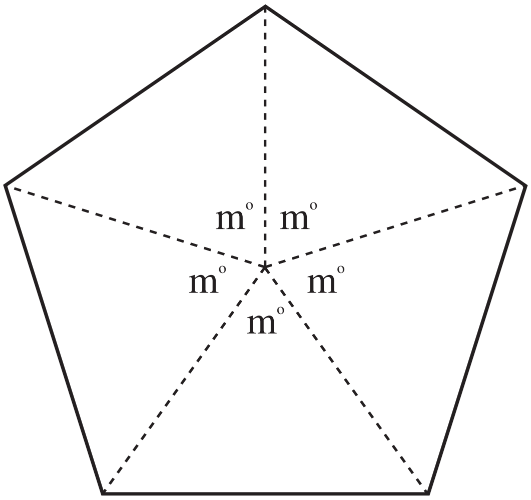
29. If $x = 6$ $y = 2$ and $z = 5$

Write the correct number in each of the boxes below.

$x + y =$ ☐

$z^2 =$ ☐

30. Look at the **pentagon** below. There are **5 equal angles** drawn at the centre of the pentagon. **Each angle is m^o.**

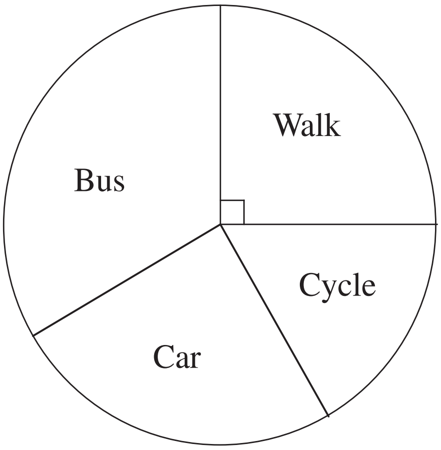


Write the **value of m** in the space below.

____

(2)

31. The pie chart below shows how **100 children** travel to school each day.



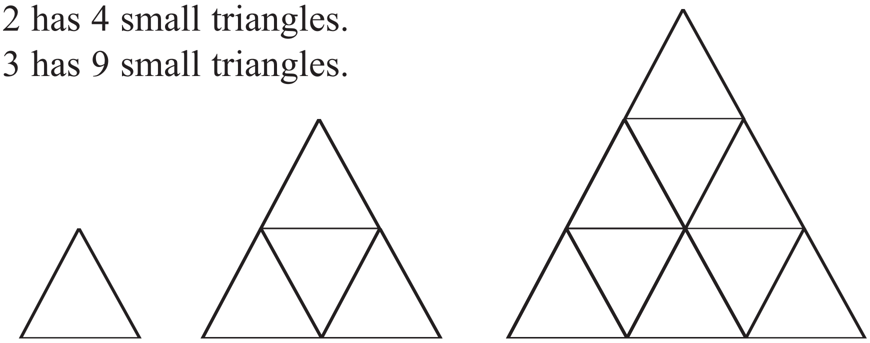
The number of children who travel to school **by car** is **19**.
Twice as many travel to school **by bus** as by car. **How many** children **cycle** to school? Write your answer in the space below.

____

---

32. Look at the sequence of **3 patterns** below. In each pattern small **triangles** are used to make **bigger triangles**.

Pattern 1 has 1 small triangle.
Pattern 2 has 4 small triangles.
Pattern 3 has 9 small triangles.



Look at the table below for the number of small triangles in each pattern.

Pattern	1	2	3
Number of small triangles	1	4	9

How many **small triangles** are there in **Pattern 5**? Write your answer in the space below.

___________ small triangles.

(2)

Do not write in this column

33. Robert uses his calculator to carry out the calculation:

26 x 32 = 832

Write the correct number in each of the boxes below. You may use Robert's calculation to help you.

26 x 64 =

13 x 16 =

832 ÷ 64 =

832 ÷ 16 =

---

34. Look at the list of 7 numbers in the box.

15 8 23 18 33 35 27

You must **select 3 numbers** from the list to complete the statements below. For each statement select a number which **makes the statement true**. Write your answers in the spaces below.

(a) ___________ is a **factor** of 36

(b) ___________ is a **multiple** of 7

(c) ___________ is a **prime number**

---

35. Complete the following calculations. Write your answers in the spaces below.

3.84 ÷ 10 = ___________

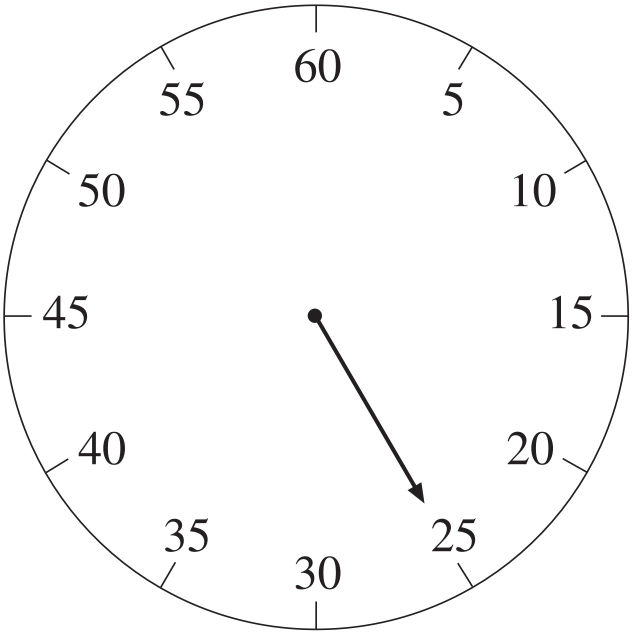
47.5 x 10 = ___________

3269 ÷ 100 = ___________

(3)

GO STRAIGHT TO PAGE 16

36. Look at the stopwatch below.



The hand on this stopwatch is pointing to **25**. The hand now moves **clockwise** through **240^o**. What **number** will the hand be pointing to after turning clockwise through 240^o? Write your answer in the space below.

____

Do not write in this column

(1)

The Boy Who Dropped Litter

‘ANTHONY WRIGGLY
SHAME ON YOU!’
screeched the teacher
as she spotted him
scrunching up his crisp packet
and dropping it carefully
on to the pavement outside school.

‘If everyone went around
dropping crisp packets like you do
where would we be?’

(Anthony didn’t know, so she told him)

‘We’d be wading waist-high in crisp packets,
that’s where!’

Anthony was silent.
He hung his head.

It looked to the teacher
as if he was very sorry.

When in fact he was trying to calculate
just how many packets it would take
to bring Basildon to a complete standstill.

Lindsay MacRae

37. Look at the **four words** below. All four words appear in **verse one** of the poem. Tick ☑ the **two words** which tell us what **Anthony Wriggly** does.

dropping ☐

screeched ☐

scrunching ☐

spotted ☐

(2)

38. Look at the **three statements** below. **Based on your reading of the poem**, tick ☑ the correct box to show whether each statement is **true** or **false**.

	True	**False**
Anthony Wriggly's teacher quietly calls him by his name.	☐	☐
Anthony is in trouble because he dropped litter in a classroom.	☐	☐
Anthony is very sorry for dropping his litter and apologises.	☐	☐

39. Look at the **four words** 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.

tell	told
try	______________
take	______________
know	______________

40. **Based on your reading of the poem**, tick ☑ the word below which **best** describes **Anthony's teacher**.

timid ☐

dramatic ☐

deceitful ☐

41. Look at the **final verse**. Find the **word** which is **closest in meaning** to the phrase **work out**. Write the word in the space below.

____

Do not write in this column

(6)

Do not write in this column

42. There is an apostrophe in the word **we'd**. The word **we'd** is used at the beginning of **verse four** of the poem. Write below the **two words** that mean the same as **we'd**, as used in the poem. **Be careful with your spelling.**

____________ ____________

43. Which **two word phrase** from the **final verse** tells us that Anthony's teacher is **wrong to think he's sorry**? Write the two words in the space below.

____

(2)

GO STRAIGHT TO PAGE 20

Do not write in this column

44. Sugar costs **£4.90 per kilogram**. How much would **400 g** cost? Write your answer in the space below.

£ ____________

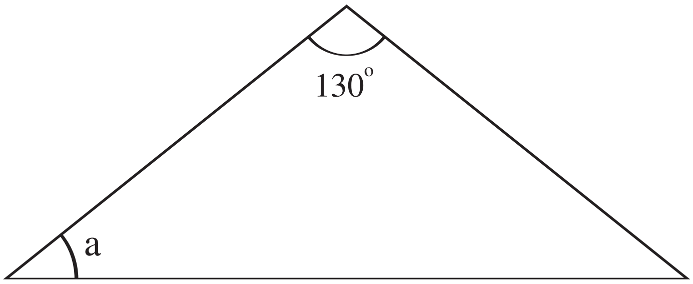
---

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

____ , 111, 115, 120, 126, 133, ____

---

46. The **triangle** below is **isosceles**.



Calculate the value of the angle **a**. Write your answer in the space below.

____________ o

---

47. The table below shows the times taken by 4 girls in the sprint event at a school sports day.

Girl	Time (seconds)
Ellen	19
Niamh	21
Laura	19
Andrea	17

What is the **mean** (average) time taken by the 4 girls? Write your answer in the space below.

____________ seconds

(4)

GO STRAIGHT TO PAGE 21

Do not write in this column

48. Look again at the times taken by the 4 girls in the previous question. What is the **range** for these times? Write your answer in the space below.

__________ seconds

49. Paul’s car has run out of petrol. The petrol tank on Paul’s car holds **50 litres** of petrol. Petrol costs **£1.25 a litre**. **How much does it cost** Paul to **fill the tank** with petrol? Write your answer in the space below.

£_________

50. Look at the bus timetable below.

	Bus A	Bus B	Bus C	Bus D
Belfast	07:11	08:11	09:11	10:11
Banbridge	07:49			10:52
Newry	08:12	09:02	09:56	
Dundalk	08:44		10:32	11:37
Drogheda	09:15	10:09	11:08	12:13

How long does **Bus A** take to travel from **Banbridge** to **Drogheda**? Give your answer **in minutes**. Write your answer in the space below.

__________ minutes

51. **Which** of the **4 buses** takes the **shortest time** to travel from **Belfast** to **Drogheda**? Give your answer by writing **A, B, C** or **D** in the space below.

Bus __________

(4)

GO STRAIGHT TO PAGE 22

Ruby Holler

Ruby Holler at night can be an eerie, dark place, full of shadows and silence, but both the shadows and the silence are deceptive. Out of the shadows dash creatures of all shapes and sizes: swift, diving bats and scurrying raccoons, fluttering moths and cunning bobcats. From the deepest silence erupt groans and howls, snorts and squawks, creaks and croaks. Paths, which in daylight seem clearly trodden ways, twist and turn in the night, looping back on themselves and vanishing into dense thickets. Out of nowhere, boulders loom, and fallen trees barricade the way. Roots and holes and swampy earth snare unsuspecting feet.

Into this dark, dense maze stumbled Florida and Dallas. Barely ten minutes from the cabin, they were tangled in the thicket.

"What's this stupid bush doing here?" Florida grumbled.
"It wasn't here before. What'd you go this way for?"
"Must've gotten turned around," Dallas said. "Sure is dark out here."
"I've hardly ever seen anything so dark," Florida said.

Sharon Creech

Do not write in this column

52. Circle the **best word** or **best group of words** to complete the sentences below.

The passage is about two animals people finding their way through a wood early in the morning at night. They are lost because they have no map it is so dark. They are very far from the cabin close to the cabin.

53. **Four** creatures are named in the passage. One is the **moth**.
Write the names of the other **three** in the spaces below.

____

____

____

(2)

Do not write in this column

54. In the **first paragraph**, which **word** is closest in meaning to **creepy**? Write your answer in the space below.

____

55. **What blocked the path** of Dallas and Florida? Look at the answers below and tick ☑ the **best** answer.

the creatures ☐

the cabin ☐

the thicket ☐

56. Look at the **second paragraph** of the passage. Which **two verbs** tell us that Florida and Dallas are **having trouble walking**? Write your answers in the spaces below.

____________ ____________

57. The phrase **roots and holes and swampy earth snare unsuspecting feet** is used in the passage. It means **one** of the **three phrases** below. **Based on your reading of the passage**, tick ☑ the **best** answer.

In Ruby Holler you must be careful to avoid traps. ☐

You must tread carefully or you'll get tangled up. ☐

The visitors to Ruby Holler make the ground swampy. ☐

58. What **word** used in the **third paragraph** tells us that Florida is **unhappy**? Write the word in the space below.

____

(6)

LOOK OVER YOUR PAPER UNTIL TIME IS UP.
MAKE SURE YOU HAVE NOT MISSED A PAGE.

THIS IS A BLANK PAGE

THIS IS A BLANK PAGE

THIS IS A BLANK PAGE

Association for Quality Education Limited

THESE TESTS ARE COPYRIGHT AND CONFIDENTIAL