

STIRLING TUITION
SEAG
Entrance Assessment



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Practice Paper 5

(Cut Answer Sheet from Back Page)

English – Practice Test

In this question there is either **one** punctuation mistake or **no** punctuation mistake. Find the group of words with the mistake in it and mark its letter on your answer sheet. **If there is no mistake, mark N.**

P1

We could have pizza for dinner, or would you rather have pasta instead?



In this question you have to choose the **best** word to complete the sentence, so that it makes sense and is written in correct English. Choose the **best** answer and mark its letter on your answer sheet.

P2

I am the eldest because I was born two minutes

before after during between since my twin brother.
 A B C D E

In this question there is either **one** spelling mistake or **no** spelling mistake. Find the group of words with the mistake in it and mark its letter on your answer sheet. **If there is no mistake, mark N.**

P3

Everyone can help the enviroment by recycling and using less energy in our homes.



Read this passage to yourself.

From The Secret Garden by Frances Hodgson Burnett

The sun shone down for nearly a week on the secret garden. The Secret Garden was what Mary called it when she was thinking of it. She liked the name, and she liked still more the feeling that when its beautiful old walls shut her in ^(P4) no one knew where she was. It seemed almost like being shut out of the world in some fairy place. The few books she had read and liked had been fairy-story books, and she had read of secret gardens in some of the stories. Sometimes people went to sleep in them for a hundred years, which she had thought must be rather stupid. ^(P5) She had no intention of going to sleep, and, in fact, she was becoming wider awake every day which passed at Misselthwaite.

Answer this question. Choose **one** answer from the options below and mark its letter on your answer sheet.

P4

Which of the following is true about the secret garden from the extract?

- A The secret garden is from a fairy story.
- B The secret garden makes Mary sleepy.
- C The secret garden has walls around it.
- D The secret garden is from Mary's imagination.
- E Mary is trapped in the secret garden.

For this question, you have to **write your answer** in the box provided on your answer sheet (box P5).

P5

Which one word from the passage means the same as "silly"?

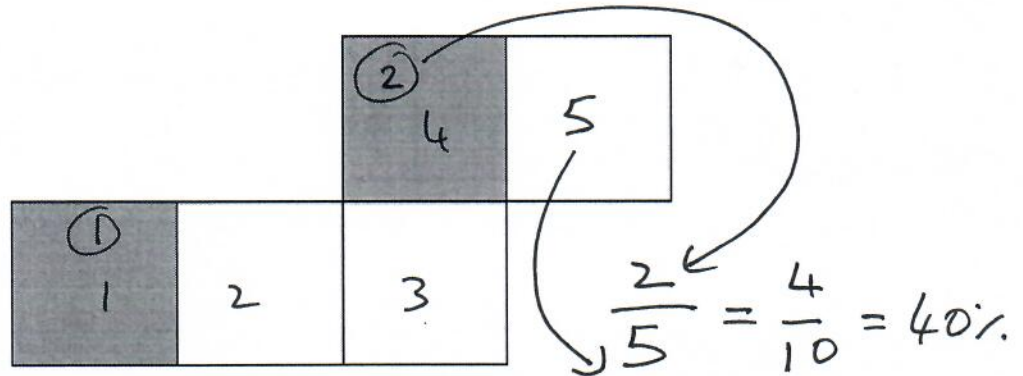
stupid



Maths – Practice Test

P6

Look at the shape below which is made from 5 identical squares.



Two squares are shaded. What percentage of the shape is shaded?

A 60%

B 10%

C 40%

D 20%

E 50%

P7

Sam thinks of a number. He multiplies it by 3 then subtracts 12. Finally, he halves the answer. He ends up with 15.

What number did Sam start with?

Handwritten work: $14 \leftarrow \div 3 \leftarrow 42 \leftarrow +12 \leftarrow 30 \leftarrow \times 2 \leftarrow 15$
 $? \rightarrow \times 3 \rightarrow -12 \rightarrow \div 2 \rightarrow 15$

A 14

B 6

C 54

D 32

E 17.5

Handwritten calculation:
$$\begin{array}{r} 14 \\ 3 \overline{)42} \end{array}$$

P8

Annie posts three large letters. The postage costs the same for each letter. She pays with a £20 note. Her change is £14.96.

What is the cost of posting one letter?

$$\begin{array}{r} 20.00 \\ - 14.96 \\ \hline 5.04 \end{array}$$
$$3 \overline{) 5.04} \begin{array}{r} 1.68 \\ \underline{3.00} \\ 2.04 \\ \underline{2.04} \\ 0 \end{array}$$

A £4.98

B £2.24

C £5.04

D £2.52

E £1.68

For these questions you have to **write your answers** in the boxes provided on your answer sheet (box P9 and P10). The units of measurement have been given.

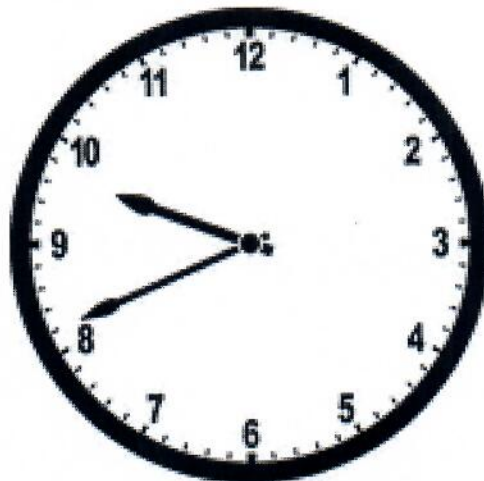
P9

The digits 2,4,6 and 9 can be arranged to make a 4-digit number. For example, the number 2649.

Using these digits, write down a number greater than 6900 but less than 6930.

6924

P10



What is 9:41 pm as a 24-hour clock time?

21:41



English – Main Test

In this exercise there are some mistakes with **punctuation** or use of **capital letters**. On each numbered line there is either **one** mistake or **no** mistake. Find the group of words with the mistake in it and **mark its letter on your answer sheet**. If there is no mistake, mark **N**.

Punctuation Exercise

- 1 "I don't care how much you beg," said Jane. You are not getting any of my sweets."
A B C D
- 2 Titanic – which was in cinemas in 1997 is one of my mum's favourite movies.
A B C D
- 3 I thought I was looking at the north star, but instead it was just a satellite!
A B C D
- 4 Will you watch the horror movie with me? I'm too scared to watch it alone.
A B C D N
- 5 "Theres no need to rush!" said Dan. "We have plenty of time before the train leaves."
A B C D

In this exercise you have to choose the **best** word, or **group of words**, to complete each numbered line so that the passage makes sense and is written in correct English. Choose the best answer and **mark its letter on your answer sheet**.

Grammar Exercise

6

Leave him alone! Go and pick on someone your own

weight size length width mass.
A B C D E

7

I didn't have an umbrella so Kate lent me

her mine ours his hers.
A B C D E

8

I was asked to leave for talking before after during across from
A B C D E

the play.

9

James is always in trouble unlike like yet although however
A B C D E

his brother, who is well behaved.

10

Please listen carefully now! The teacher

explains explained has explained is explaining to explain the new rules.
A B C D E

In this exercise there are some **spelling** mistakes. On each numbered line there is either **one** mistake or **no** mistake. Find the group of words with the mistake in it and **mark its letter on your answer sheet**. If there is no mistake, mark **N**.

Spelling Exercise

11 I was dissappointed in my exam results but I have to admit that I didn't do much revision.
↑ (A) ↑↑ B ↑↑ C ↑↑ D ↑↑

12 It is quite normal for a child to invent an imaginary friend, but they usually grow out of it.
↑ A ↑↑ B ↑↑ (C) ↑↑ D ↑↑

13 I plan to go to Portugal in February but I have heard that the weather is very changeable.
↑ A ↑↑ B ↑↑ C ↑↑ (D) ↑↑

14 We were meant to have a maths test on Wednesday, but it was changed to Thursday.
↑ A ↑↑ B ↑↑ (C) ↑↑ D ↑↑

15 After falling off the swing and breaking her shoulder, Grace was stuck indoors for weeks.
↑ A ↑↑ B ↑↑ (C) ↑↑ D ↑↑

Read the **whole** passage carefully, then answer the questions that follow.

Extract from The Secret Garden by Frances Hodgson Burnett

1. There was a laurel-hedged walk which curved round the secret garden and ended at a gate
2. which opened into a wood, in the park. She thought she would skip round this walk and
3. look into the wood and see if there were any rabbits hopping about. She enjoyed the
4. skipping very much and when she reached the little gate she opened it and went through
5. because she heard a low, ⁽²⁵⁾peculiar whistling sound and wanted to find out what it was. ⁽¹⁶⁾
6. It was a very ⁽²⁵⁾strange ⁽¹⁷⁾thing indeed. She quite caught her breath as she stopped to look at
7. it. A boy was sitting under a tree, with his back against it, playing on a rough wooden
8. pipe. He was a funny looking boy about twelve. He ⁽²⁸⁾looked very clean and his nose turned
9. up and his cheeks were as red as poppies and never had Mistress Mary seen such round
10. and such blue eyes in any boy's face. And on the trunk of the tree he leaned against, a
11. brown squirrel ⁽²³⁾was clinging and watching him, and from behind a bush nearby a cock
12. pheasant ⁽²³⁾was ⁽²⁸⁾delicately stretching his neck to peep out, and quite near him were two
13. rabbits ⁽²³⁾sitting up and sniffing with tremulous noses—and actually it appeared as if they
14. were all drawing near to watch him and listen to the strange low little call his pipe
15. seemed to make. ⁽¹⁹⁾
16. When he saw Mary he held up his hand and spoke to her in a voice almost as low as and
17. rather like his piping.
18. "Don't tha' move," he said, "It'd flight 'em."
19. Mary remained motionless. ⁽²⁶⁾ He stopped playing his pipe and began to rise from the
20. ground. He moved so slowly ⁽²⁰⁾ that it scarcely ⁽²⁰⁾ seemed as though he were moving at all, but
21. at last he stood on his feet and then the squirrel scampered back up into the branches of
22. his tree, the pheasant withdrew his head and the rabbits dropped on all fours and began to
23. hop away, though not at all as if they were frightened.
24. "I'm Dickon," the boy said. "I know tha'rt Miss Mary."
25. Then Mary realized that somehow she had known at first that he was Dickon. Who else
26. could have been ⁽²⁷⁾charming rabbits and pheasants as the natives charm snakes in India? He
27. had a wide, red, curving mouth and his smile spread all over his face.
28. "I got up slow," he explained, "because if tha' makes a quick move it startles 'em. A
29. body 'as to move gentle an'speak low when wild things is about."

30. He did not speak to her as if they had never seen each other before but as if he knew her (20)
31. quite well. Mary knew nothing about boys and she spoke to him a little stiffly because
32. she felt rather shy.
33. "Did you get Martha's letter?" she asked.
34. He nodded his curly, rust-colored head. (21) "That's why I come."
35. He stooped to pick up something which had been lying on the ground beside him when
36. he piped.
37. "I've got th' garden tools. There's a little spade an' rake an' a fork an' hoe. Eh! they are
38. good 'uns. There's a trowel, too. (24) An' th' woman in th' shop threw in a packet o' white
39. poppy an' one o' blue larkspurt when I bought th' other seeds." (24) (24)
40. "Will you show the seeds to me?" Mary said. (22)
41. She wished she could talk as he did. His speech was so quick and easy. It sounded as if he
42. liked her and was not the least afraid she would not like him, though he was only a
43. common moor boy, in patched clothes and with a funny face and a rough, rusty-red head.

Please answer these questions. (Look at the passage again if you need to.) You should choose the **best** answer and mark its letter on your answer sheet.

16

“when she reached the little gate she opened it and went through..” (line 4)
Which of the following statements explains why Mary wanted to go through the gate?

- A She wanted to see the rabbits.
- B She wanted to go into the wood.
- C She wanted to find out what the strange noise was.**
- D She wanted to go for a walk.
- E She wanted to go to the park.

17

“She quite caught her breath” (line 6)
What does this suggest about Mary?

- A She is puffed out from walking.
- B She can't breathe.
- C It is cold and she can see her breath.
- D She is shocked by what she sees.**
- E She is breathing normally.

18

“his cheeks were as red as poppies” (line 9)
What literary technique is being used in this line?

- A metaphor
- B personification
- C alliteration
- D onomatopoeia
- E simile like or as**

19

Look at lines 10 – 15. What is the effect of the description of the animals?

- A It shows that the animals are not afraid of the boy.**
- B It shows that there are lots of different types of animals in the wood.
- C It shows that the boy comes to the woods often.
- D It shows that the animals like music.
- E It shows that the animals are afraid of humans.

20

Look at lines 30 – 32. What does this suggest about Dickon?

- A Dickon is shy.
- B Dickon is friendly.**
- C Dickon knows Mary.
- D Dickon feels awkward.
- E Dickon is rude.

21

“rust-coloured head” (line 34) What does this suggest about Dickon’s appearance?

- A Dickon is untidy.
- B Dickon needs a wash.
- C Dickon has red hair.**
- D Dickon has a rust coloured hat on.
- E Dickon has a helmet on.

22

“th’ garden tools” - “an’ spade” - “good ‘uns” – “packet o’ white”

Look at lines 37 – 39. What does the language that Dickon uses suggest?

- A Dickon is speaking a foreign language
- B Dickon is stupid.
- C Dickon can’t speak properly.
- D Dickon is speaking with an accent.**
- E Dickon is being lazy.

For these questions you have to **write your answers**, neatly, in the boxes provided on your answer sheet.

23

Look at lines 8 - 15. How many different types of animals are around Dickon?

Squirrel, pheasant, rabbits

24

List all the garden tools that Dickon brings for Mary.

spade, rake, fork, hoe, trowel

25

The word "strange" is used in lines 1 – 6 of the passage. Find another word that means the same as "strange" in lines 1 - 6.

peculiar

26

Which word in line 19 means the same as "still"?

motionless

27

Which part of speech is "charming" as it appears in the passage? (line 26)

Verb

28

Which one part of speech are the following as they appear in the passage?

never (line 9) delicately (line 12) slowly (line 20) scarcely (line 20)

Adverbs

Maths – Main Test

29

If the first prime number is 2 what is the product of the seventh and eighth prime number?

X

2, 3, 5, 7, 11, 13, 17, 19

1 2 3 4 5 6 7 8

$$\begin{array}{r} 619 \\ \times 17 \\ \hline 133 \\ 190 \\ \hline 323 \end{array}$$

A 391

B 221

C 143

D 323

E 437

30

Seven boys counted how many Xbox games they had at home. Sam made a list of the number of Xbox games each of the boys had at home.



Look at the list below.

$\begin{array}{c} 21 \\ 12 \nearrow \nwarrow 9 \\ 1 \quad 2 \end{array}$

 $\begin{array}{c} 13 \\ 6 \nearrow \nwarrow 7 \\ 3 \quad 4 \end{array}$

 $\begin{array}{c} 29 \\ 11 \nearrow \nwarrow 10 \quad 8 \\ 5 \quad 6 \quad 7 \end{array}$

What is the mean (average) number of Xbox games?

$$\begin{array}{r} 21 \\ 13 \\ + 29 \\ \hline 7 \overline{) 63} \\ \underline{7} \\ 9 \end{array}$$

A 12

B 8

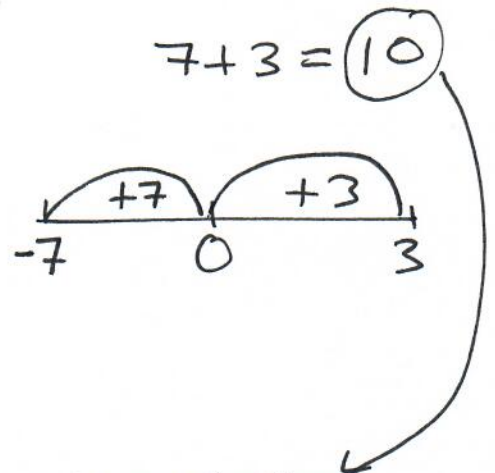
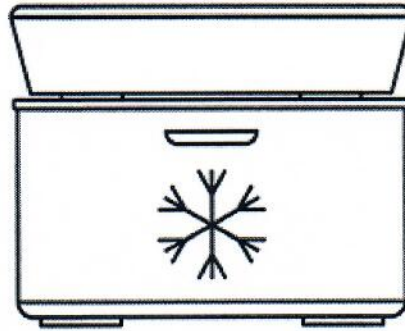
C 9

D 7

E 10

31

The temperature of a freezer is -7°C . It is switched off. The temperature rises at a steady speed over the next five hours to 3°C .



By how many degrees per hour did the temperature rise over the 5-hour period?

$10 \div 5 = 2$

A 2°C

B 1°C

C 5°C

D 3°C

E 7°C

32

The individual chocolates in a packet weigh 8.5 grams each. A full packet of chocolates contains 30 chocolates and the packaging weighs 140 grams.

What is the total weight of the complete packet of chocolates when it is full in kilograms?

A 0.255kg

B 0.395kg

C 148.5g

D 0.1485kg

E 395g

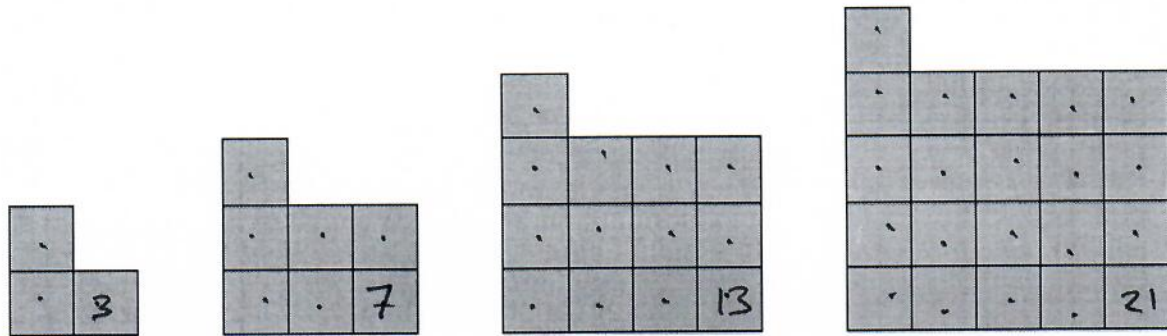
$$\begin{array}{r} 8.5 \\ \times 30 \\ \hline 255.0 \end{array} \text{g}$$

$$\begin{array}{r} 255 \\ + 140 \\ \hline 395 \end{array} \text{g}$$

$1 \text{ kg} = 1000 \text{ g}$
 $\times 1000$

$\times 1000 = 0.395 \text{ kg}$

The patterns below are formed from square tiles. The first patterns in the sequence are shown below.



Pattern 1

Pattern 2

Pattern 3

Pattern 4

Handwritten sequence: 3, 7, 13, 21, 31, 43. Increments are circled: +4, +6, +8, +10, +12. The number 43 is circled.

How many tiles are needed to make the sixth pattern?

A 31

B 41

C 29

D 49

E 43

Handwritten calculation:

$$\begin{array}{r} 200 \\ - 24 \\ \hline 176 \end{array}$$

Cuboid A measures 3 cm by 4 cm by 2 cm.

Cuboid B measures 5 cm by 10 cm by 4 cm.

Handwritten calculations:
 $3 \times 4 = 12 \times 2 = 24$
 $5 \times 10 = 50 \times 4 = 200$

How much greater is the volume of cuboid B than the volume of cuboid A?

A 200cm³

B 24cm³

C 152cm³

D 176cm³

E 224cm³

Look at the sequence of numbers below.

14 15 17 20 24 ?
 +1 +2 +3 +4 +5

Handwritten calculation: $24 + 5 = 29$

What is the next number in the sequence?

A 26

B 29

C 31

D 28

E 30

36

A chicken coop produces 476 eggs. The eggs are put into boxes. Each full box contains 6 eggs.

How many full boxes are there?

$$\begin{array}{r} 079 \text{ r } 2 \\ 6 \overline{) 476} \end{array}$$

- A 79 B 2 C 80 D 3 E 78

37

Grace is going on holiday. She sees a deal to travel to Thailand. The price of the trip is £849. There is 25% off the listed price in the sale.

$$100 - 25 = 75\% = \frac{3}{4} \text{ of } 849$$

What is the sale price of the holiday?

- A £424.50 B £212.25 C £636.75 D £512.25 E £754.50

$$\begin{array}{r} 212.25 \\ \times 3 \\ \hline 636.75 \end{array}$$

38

There are three songs played directly one after another. The length of each song is listed below:

- Song 1 = 3 minutes 26 seconds
- Song 2 = 4 minutes 23 seconds
- Song 3 = 3 minutes 18 seconds

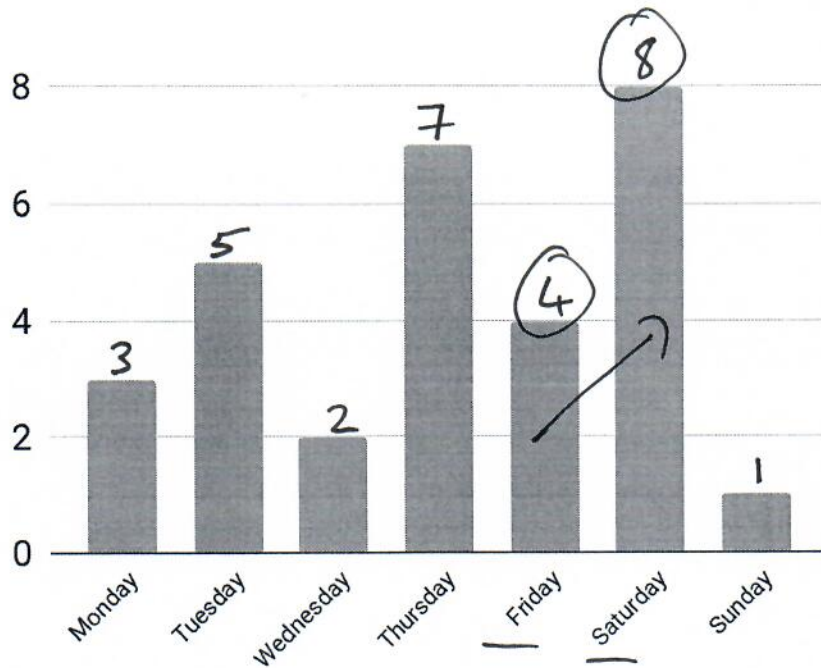
$$\begin{array}{r} 10 \text{ min} \\ + 67 \text{ sec} \end{array}$$

$$\begin{array}{r} 10 \times 60 = 600 \\ + 67 \\ \hline 667 \end{array}$$

What is the total time in seconds that the three songs play for?

- A 667 B 607 C 67 D 618 E 649

Jen records the **number of cups of tea she drinks each day** for a week. She draws the graph below.

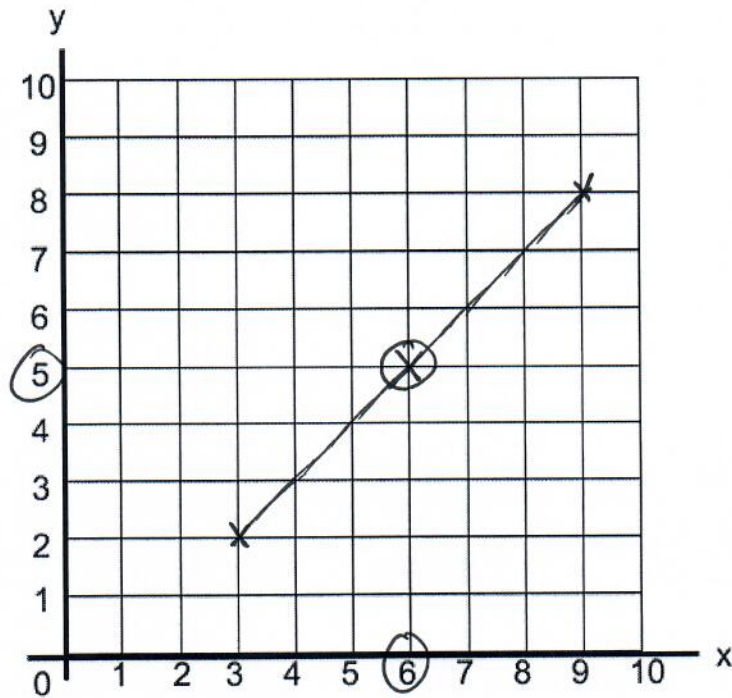


Over which two consecutive days is there is a 100% increase in her tea consumption?

- A Mon-Tues
- B Tues-Wed
- C Wed-Thurs
- D Thurs-Fri
- E Fri-Sat**

↓
Doubles

Look at the grid below. It will help you answer the question that follows.



A line is drawn from the point (3,2) to the point (9,8).

What are the coordinates of the point halfway along this line?

- A (7,5) B (6,4) C (8,56) D (5,5) **E (6,5)**

Jen and Elaine both donate some of their pocket money to charity. Jen gets £15 a week pocket money. Elaine gets £7 a week pocket money. Jen donates three quarters of her pocket money and Elaine donates half of her pocket money.

What is the total amount of money they donate to charity?

- A £11.25 B £3.50 C £13.50 **D £14.75** E £7.75

$$\text{Jen} = \pounds 15 \times \frac{3}{4} \text{ of } 15 = \pounds 11.25$$

$$\text{Elaine} = \pounds 7 \times \frac{1}{2} \text{ of } 7 = \pounds 3.50$$

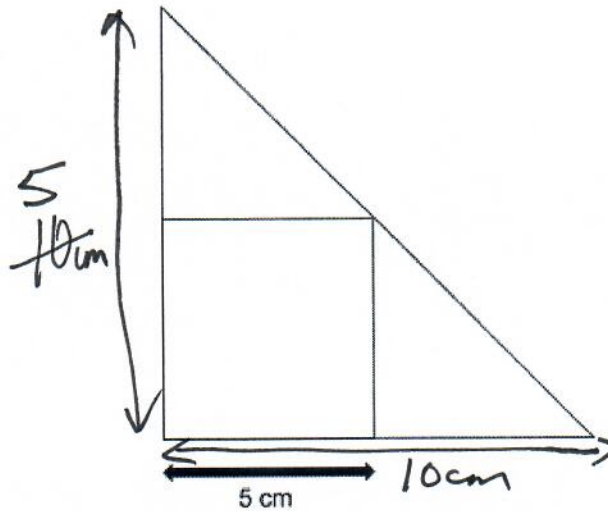
$$\pounds 11.25$$

$$\begin{array}{r} \pounds 7.75 \\ \times 3 \\ \hline \pounds 23.25 \end{array}$$

$$\begin{array}{r} \pounds 11.25 \\ \times 3 \\ \hline \pounds 33.75 \end{array}$$

42

Look at the diagram below. It is a right-angle triangle with a square inside the triangle. The square has a side length of 5cm. The height and width of the triangle are double the side length of the square.



$5 \times 10 = 50$

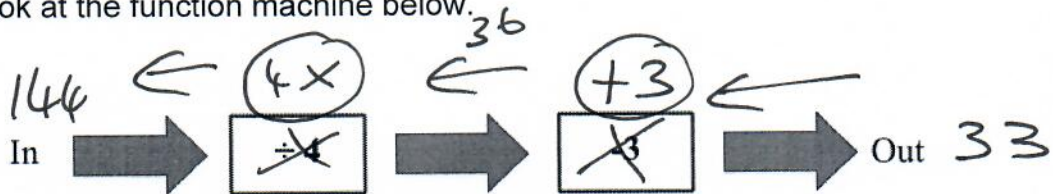
What is the area of the triangle?

- A 125cm² B 25cm² C 50cm² D 75cm² E 100cm²

43

$$\begin{array}{r} 2 \\ 36 \\ \times 4 \\ \hline 144 \end{array}$$

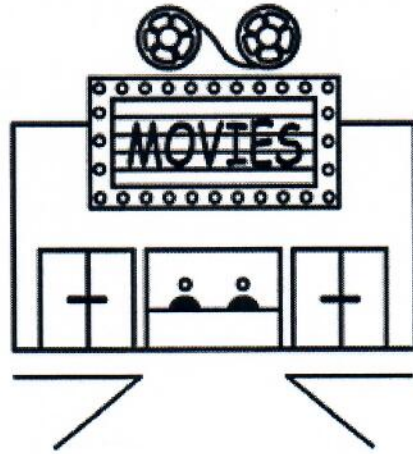
Look at the function machine below.



What number would need to go into the function machine if 33 comes out?

- A 144 B 9 C 162 D 7.5 E 120

44



Clare goes to the cinema to watch the latest release with her family. The movie lasted for 1 hour and 47 minutes and finished at 21:43.

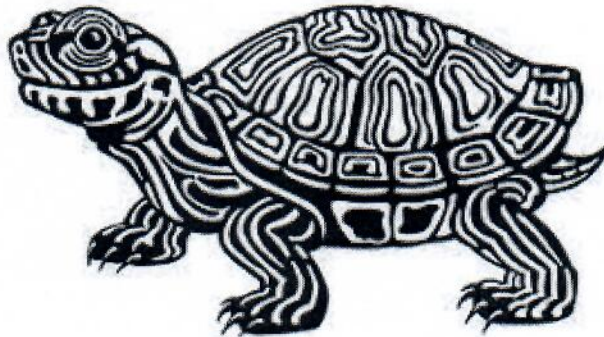
What time did the movie start in 12-hour time?

- A 23:30
- B 8:04pm
- C 19:56
- D 11:30pm
- E 7:56pm**

$$\begin{array}{r}
 19:56 \\
 - 01:47 \\
 \hline
 18:09 \\
 - 12 \\
 \hline
 16:57
 \end{array}$$

7:56pm

45



Barney is buying terrapins for his tank. He reads on the internet that the maximum number of terrapins you can have in a tank is the volume of the tank divided by 7. He uses this rule to work out the maximum number of terrapins he can keep in the tank.

What is the maximum number of terrapins Barney can keep in a tank of 84 litres?

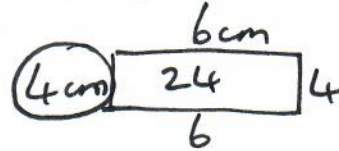
- A 11
- B 588
- C 77
- D 12**
- E 91

$$\begin{array}{r}
 12 \\
 7 \overline{)84} \\
 \hline
 84 \\
 \hline
 0
 \end{array}$$

46

A rectangle has an area of 24cm^2 . One side is 6 cm long.

What is the perimeter of the rectangle?



$$\begin{array}{r} 6+6=12 \\ 4+4=8 \\ \hline 20 \end{array}$$

- A 36cm B 24cm C 18cm D 26cm E 20cm

47

What is $\frac{2}{3}$ of 411?

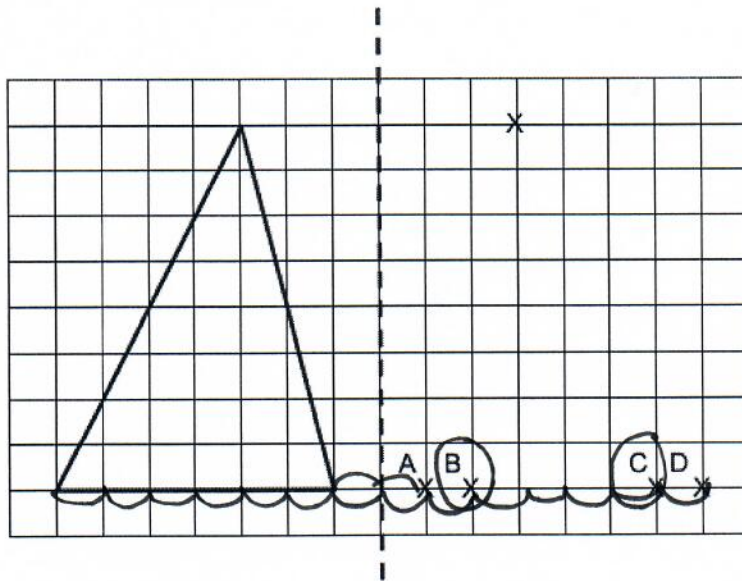
$$3 \overline{) 137}$$

$$\begin{array}{r} 137 \\ \times 2 \\ \hline 274 \end{array}$$

- A 274 B 286 C 153 D 137 E 411

48

Look at the diagram below. It shows a triangle, a dotted line and four points, A, B, C and D.



The triangle is reflected in the dotted line.

Which of the two points are not the corners of the reflected triangle?

- A A,B B A,C C A,D D B,C E B,D

49

Look at the statement below.

$$123 - n = 26$$

What is the value of n ?

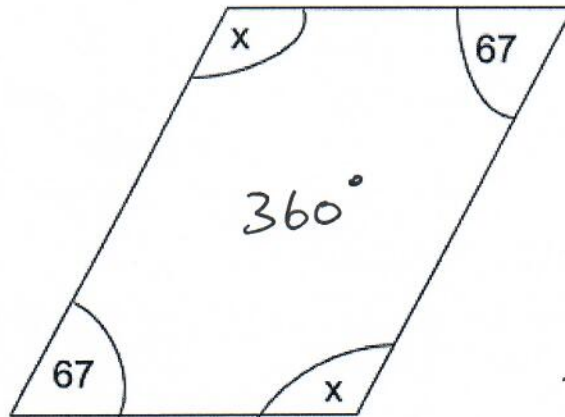
- A 151 B 95 C 112 **D 97** E 149

$$\begin{array}{r} 0 \quad 11 \quad 1 \\ 123 \\ - 26 \\ \hline 97 \end{array}$$

50

Look at the quadrilateral below. It is a parallelogram.

Within a parallelogram opposite angles are equal.



What is the size of the angle x ?

- A 228°
B 113°
 C 115°
 D 226°
 E 90°

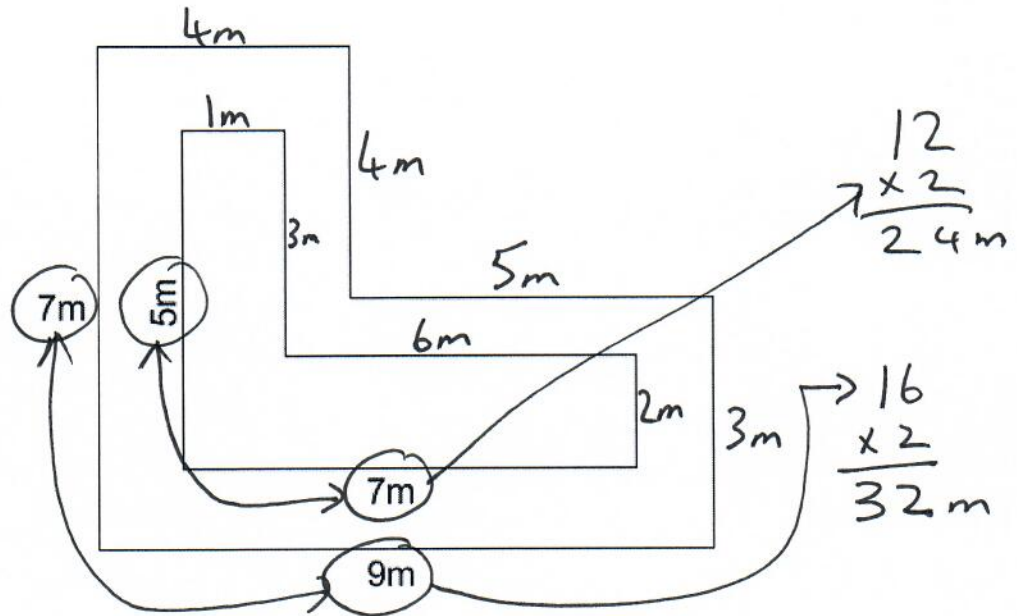
$$\begin{array}{r} 67 \\ \times 2 \\ \hline 134 \end{array}$$

$$\begin{array}{r} 51 \\ 360 \\ - 134 \\ \hline 226 \\ 2 \overline{) 226} \\ \underline{113} \end{array}$$

For questions 51–56, you have to **write your answers** in the boxes provided on your answer sheet. The units of measurement have been given.

51

Look at the diagram below. It shows an L shaped swimming pool.



How much further is it to walk around the outside edge of the swimming pool than to swim around the edge of the swimming pool?

8 meters

$$\begin{array}{r} 32 \\ - 24 \\ \hline 08 \end{array}$$

52

John has been set a problem by his teacher. He must add together the number of edges, vertices and faces of a cube.

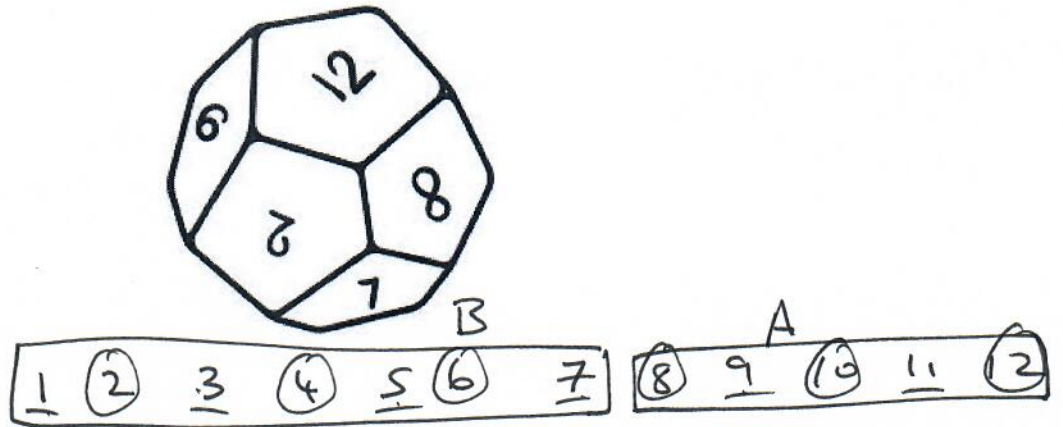
What should his answer be?

26



E	V	F
12	8	6

$$12 + 8 = 20 + 6 = 26$$



Grace is playing with a twelve-sided dice. She rolls the twelve-sided dice. Look at the four possible outcomes below.

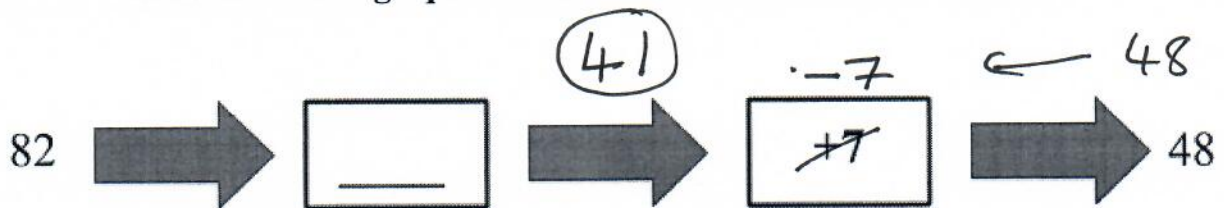
- Outcome A: Grace rolls a total over 7. $\frac{5}{12}$
- Outcome B: Grace rolls a total under 8. $\frac{7}{12}$
- Outcome C: Grace rolls an even number total. $\frac{6}{12}$
- Outcome D: Grace rolls an odd number total. $\frac{6}{12}$

What is the letter of the outcome that is most likely to happen?

B

Look at the function machine below.

Fill in the missing square to make the calculation correct.



$$82 \div 2 = 41$$

$$82 - 41 = 41$$

$\boxed{\div 2}$ or $\boxed{-41}$

55



$$\begin{aligned} 1 \times 36 &= 36 \\ 2 \times 36 &= \textcircled{72} \end{aligned}$$

Sam thinks of a number. It is a multiple of 9 and 4 and is between 60 and 80.

What is the number?

$\textcircled{72}$

$$\begin{array}{c} \downarrow \quad \downarrow \\ 9 \times 4 = 36 \end{array}$$

56

Ruth is describing a quadrilateral to her classmates.

- It has two sets of parallel sides.
- It has obtuse and acute angles.
- All the sides are the same length. (square or rhombus)

What is the name of the quadrilateral she has described?

Rhombus