STIRLING TUITION

SEAG
Entrance Assessment

ST

S T I R L I N G T U I T I O N
W W W . S T I R L I N G T U I T I O N . C O M

Practice Paper 6

(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 My favourite flavour of ice cream is strawberry but I also like vanilla, chocolate and cherry.

(handwritten: ✓ comma)

A   B   C   (D)

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   Every night, at 6 o'clock, my granny watches

the   an   a   this   some   BBC news.
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   The Natural History Museum in London has an interesting colection of dinosaur bones.

(handwritten: collection)

A   B   (C)   D

Read this passage to yourself.

From The Fir Tree by Hans Christian Andersen

The servants, as well as the young ladies, decorated it. On one branch there hung little nets cut out of coloured paper, and each net was filled with sugarplums; and among the other boughs gilded apples and walnuts were suspended, looking as though they had grown there, and little blue and white tapers were placed among the leaves. Dolls that looked for all the world like men—the Tree had never beheld such before—were seen among the foliage, and at the very top a large star of gold tinsel was fixed. It was really splendid—beyond description splendid. (P5)
'This evening!' they all said. 'How it will shine this evening!'

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 decorations on the tree?

A The tree is decorated with nets, foliage, sweets, tinsel and blue and white paper.
B The tree is decorated with fruit, nuts, candles, dolls and a star.
C The tree is decorated with leaves, flowers, berries, little men and tinsel.
D The tree is decorated with paper hats, lights, sugar, a fairy and blue and white tinsel.
E The tree is decorated with blue and white paper chains, silver tinsel and gold candles.

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 "excellent"?

Splendid

END OF ENGLISH PRACTICE TEST
Do not turn over until you are told to do so

P6

The school has a production of Joseph, however, only $^3/_7$ of Mr Stirling's year group of 63 are going to audition.

How many children in the year group are <u>not</u> going to audition for the school play?

$\times 4$
$\frac{4}{7}$ of $63 =$

$63 \div 7 = 9$

$9 \times 4 = 36$

A 18   B 42   (C 36)   D 27   E 21

P7

Look at the statement below.

A x 62 = 248

What is the value of A?

$62\overline{)248}$ → 4

$\begin{array}{r} 62 \\ \times 4 \\ \hline 248 \end{array}$

A 6   B 15376   C 5   D 24862   (E 4)

P8

$$
\begin{array}{r}
3 \ 3 \\
+. 6 3 \\
2. 6 7 \\
+. 4 4 \\
+. 6 6 \\
3. 0 2 \\
+ 0. 9 8 \\
\hline
£11.40
\end{array}
$$

Each week Barney saves some of his pocket money to buy an Xbox game which costs £18.99. Below are the amounts he saved over six weeks.

$$
\begin{array}{r}
18.99 \\
- 11.40 \\
\hline
£07.59
\end{array}
$$

£1.63   £2.67   £1.44   £1.66   £3.02   £0.98

At the end of the six weeks, how much money does he need to add to his savings to buy the Xbox game?

A £7.59   **B** £6.23   **C** £8.04   **D** £2.29   **E** £5.68

(A £7.59 is circled)

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.
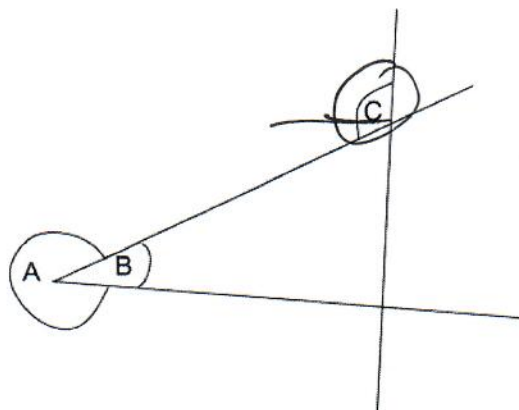
P9

What is a $1/2$ added to $3/10$ as a percentage?

$$50\% + 30\% = 80\%.$$

$$\boxed{80\%.}$$

P10

Look at the shape below. Within the shape there are different types of different angles.

$$obtuse = 90° - 180°$$

Which of the letters above represents an obtuse angle?

$$\boxed{C}$$

END OF MATHS PRACTICE TEST
Do not turn over until you are told to do so ⚠

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 My sister moved to New Zealand last year. She lives in a city called Wellington.

   A   B   C   *Capital letter* D

2 *apostophe for contraction*
   "Its good to see you again," said Jade. "I've missed you since you moved house."

   (A)   B   C   D

3 *dash to close extra info*
   My granny – who is quite old often needs help with jobs around the house.

   A   (B)   C   D

4 Our school is having a Christmas Fair this Saturday to raise funds for local charities.

   A   B   C   D   [N]

5 *missing speech marks*
   "Why are you back so early? I said. "I thought that you wouldn't be home until midnight."

   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   I have no [idea] [conclusion] [imagine] [knowledge] [feeling]
          A   B   C   D   E

what the teacher was talking about.

7   Our pets rely on us to feed [they] [their] [themselves] [them] [it]
                                      A   B   C   D   E

every day.

8   I live in Northern Ireland, but my family are originally

[to] [at] [around] [in] [from] England.
 A   B   C   D   E

9   Stop shouting at me [or] [and] [yet] [but] [if]
                             A   B   C   D   E

you'll be sorry!

10 After [wait] [waited] [waiting] [was waiting] [has waited]
               A   B   C   D   E

for his friends for over an hour, Joel decided to go home.

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   *decided*

After looking at all the options, I have desided to go to France on holiday this year.

A   B   C   D

12   *interesting*

I don't really understand science but I think that the experiments are very intresting.

A   B   C   D

13   *queues*

If you don't like long qeues then you should buy a fast-track ticket at the theme park.

A   B   C   D

14

It is best to visit Hong Kong in autumn when the weather is cooler and more comfortable.

A   B   C   D

N

15   *safety*

Before you join the cookery class you must buy your equipment and learn the safty rules.

A   B   C   D

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

Extract from The Fir Tree by Hans Christian Anderson

1. Out in the woods stood a nice little Fir Tree. The place he had was a very good one: the

2. sun shone on him: as to fresh air, there was enough of that, and round him grew many

3. large-sized comrades, pines as well as firs. But the little Fir wanted so very much to be a

4. grown-up tree.

5. He did not think of the warm sun and of the fresh air; he did not care for the little cottage

6. children that ran about and prattled when they were in the woods looking for wild

7. strawberries. The children often came with a whole pitcher full of berries, or a long row

8. of them threaded on a straw, and sat down near the young tree and said, 'Oh, how pretty

9. he is! What a nice little fir!' But this was what the Tree could not bear to hear.

10. At the end of a year he had shot up a good deal, and after another year he was another

11. long bit taller; for with fir trees one can always tell by the shoots how many years old

12. they are.

13. 'Oh! Were I but such a high tree as the others are,' sighed he. 'Then I should be able to

14. spread out my branches, and with the tops to look into the wide world! Then would the

15. birds build nests among my branches: and when there was a breeze, I could bend with as

16. much stateliness as the others!'

17. Neither the sunbeams, nor the birds, nor the red clouds which morning and evening sailed

18. above him, gave the Tree any pleasure.

19. In winter, when the snow lay glittering on the ground, a hare would often come leaping

20. along, and jump right over the little Tree. Oh, that made him so angry! But two winters

21. were past, and in the third the Tree was so large that the hare was obliged to go round it.

22. 'To grow and grow, to get older and be tall,' thought the Tree—'that, after all, is the most

23. delightful thing in the world!'

24. In autumn the wood-cutters always came and felled some of the largest trees. This

25. happened every year; and the young Fir Tree, that had now grown to a very comely size,

26. trembled at the sight; for the magnificent great trees fell to the earth with noise and

27. cracking, the branches were lopped off, and the trees looked long and bare; they were

28. hardly to be recognised; and then they were laid in carts, and the horses dragged them out

29. of the wood.

30. Where did they go to? What became of them?

31. In spring, when the swallows and the storks came, the Tree asked them, 'Don't you know

32. where they have been taken? Have you not met them anywhere?'

33. The swallows did not know anything about it; but the Stork looked musing, nodded his

34. head, and said, 'Yes; I think I know; I met many ships as I was flying hither from Egypt; *(21)*

35. on the ships were magnificent masts, and I venture to assert that it was they that smelt so

36. of fir. I may congratulate you, for they lifted themselves on high most majestically!'

37. 'Oh, were I but old enough to fly across the sea! But how does the sea look in reality?

38. What is it like?'

39. 'That would take a long time to explain,' said the Stork, and with these words off he

40. went.

41. 'Rejoice in thy growth!' said the Sunbeams. 'Rejoice in thy vigorous growth, and in the

42. fresh life that moveth within thee!' And the Wind kissed the Tree, and the Dew wept *26*

43. tears over him; but the Fir understood it not. *(22)*

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

Look at lines 1-4. What does the description suggest about the place where the little Fir is growing?

A It is hot and windy.
B It is dark and spooky.
C It is wild and overgrown.
D It is the perfect place for trees to grow.
E It is hot and dusty.

17

"he had shot up a good deal" (line 10)
What does this suggest about the Tree?

A The Tree has got smaller.
B The Tree has got taller.
C The Tree has got wider.
D The Tree has not grown at all.
E The Tree has got more branches.

18

"…..to look into the wide world!" (line 14)
What literary technique is being used in this line?

A metaphor
B personification
C alliteration
D onomatopoeia
E simile

19

Look at lines 13 - 18. What does this suggest about how the Tree is feeling?

A He is lonely.
B He is happy.
C He is angry.
D He is hopeful.
E He is dissatisfied.

Please go onto the next page >>>

20

Look at lines 19 – 23. Why does the Tree get angry?

Ⓐ The hare jumping over him reminds him that he is small
B The Tree doesn't like winter.
C The hare damages the Tree when it jumps over him.
D The hare is being rude and inconsiderate.
E The Tree doesn't like hares.

21

Look at lines 31-36. Why does the Tree ask the birds where the other trees have gone?

A The birds are extremely intelligent.
B The birds know everything about trees.
Ⓒ The birds fly all over the world and can see many things.
D The birds travel on the ships with the other trees.
E The birds live in the other trees.

22

Look at lines 41 – 43. What does this suggest about the Tree?

A The Tree is being rude to the Sunbeams, the Wind and the Dew.
Ⓑ The Tree can't see that the Sunbeams, the Wind and the Dew are helping him to grow.
C The Tree is unintelligent.
D The Tree cannot hear the Sunbeams, the Wind and the Dew.
E The Tree doesn't understand what the Sunbeams, the Wind and the Dew are saying.

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

23

Look at lines 5 – 12. According to the passage, how can you tell the age of a fir tree?

Looking at the shoots

24

In which season are the fir trees cut down?

Autumn

25   Which word in line 18 means the same as "happiness"?

pleasure

26   Which word in line 42 means the same as "cried"?

Wept

27   Which part of speech is "bear" as it appears in the passage? (line 9)

Verb

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

round (line 2)   of (line 5)   for (line 5)   about (line 6)

Prepositions

Maths – Main Test

29 What is the number that needs to be inserted below to make the statement true?

$$\frac{12}{30} \xrightarrow{\div 3} = \frac{4}{10} \xrightarrow{\times 10} = \frac{40}{100} = 40\%.$$

(12) is _____ % of 30

A 25%   **B 40%** (circled)   C 30%   D 35%   E 45%

---

30 Below are two triangles. An isosceles triangle (A) and an <u>equilateral triangle (B)</u>.

$$\begin{array}{r} 80 \\ +80 \\ \hline 160 \end{array}$$

$$\begin{array}{r} 180 \\ -160 \\ \hline 20 \end{array}$$

$20°$, y, A, 80, $80°$

$3\overline{)180} = 60$

x, $60°$, B, 60, 60

$$60 = x$$
$$-20 = y$$
$$\overline{40}$$
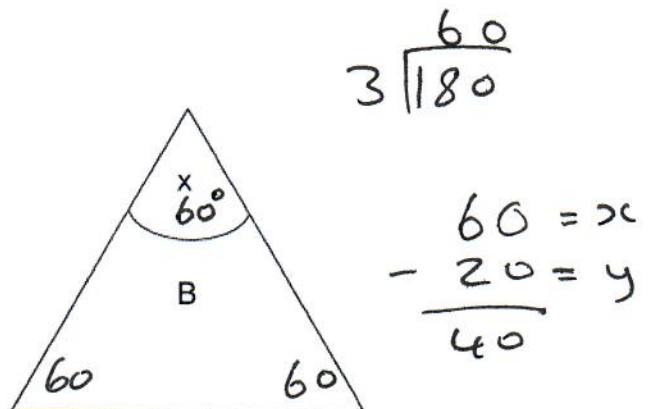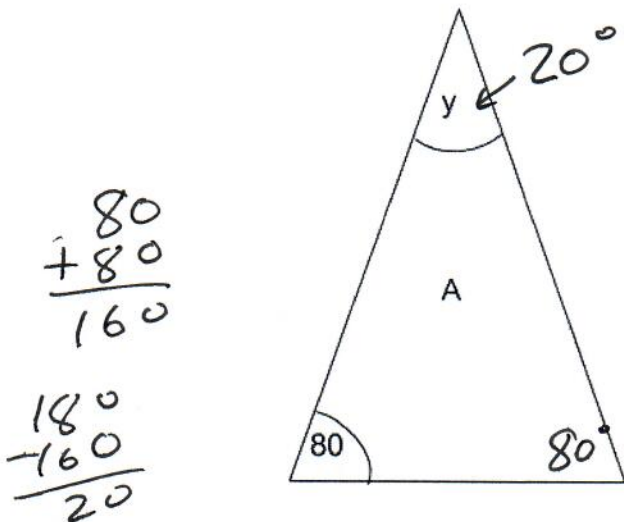
How much bigger is angle x than angle y?

A 60°   B 20°   C 50°   D 80°   **E 40°** (circled)

31

$$\begin{array}{r} {}^{5}\!\!\!6.{}^{1}2\,0 \\ -\;2.9\,0 \\ \hline 3\cdot3\,0 \end{array}$$

Mr. Stirling's class collects money each week for charity. Here are the amounts collected over five weeks.

(£2.90)   (£6.20)   £4.50   £5.10   £3.70

What is the range of money collected by Mr. Stirling's class?

A £3.30   **B** £2.65   **C** £4.48   **D** £2.20   **E** £4.30

32

A number is missing from the statement below.

If 27 ÷ A = 5 then 54 ÷ A = ___10___   ×2   ×2

What is the number that correctly completes the statement above?

A 9   **B** 2   **C** 10   **D** 3   **E** 2.5

33
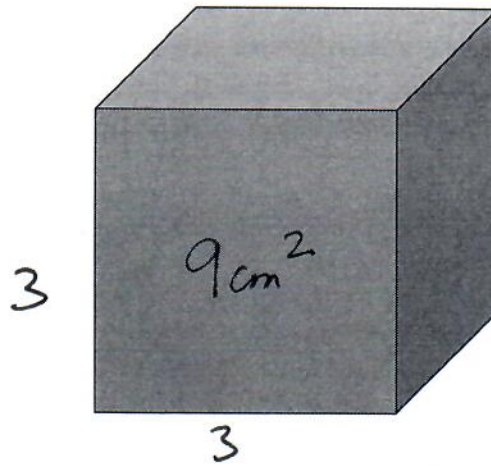
Each edge of a cube has a length of 3 cm.

Handwritten:
$9 cm^2$
$\times 6$ faces
$54 cm^2$

3

$9 cm^2$

3

What is the total surface area of the cube?

A 9cm²   B 81cm²   C 27cm²   (D 54cm²)   E 36cm²

34

A train leaves Belfast at 14:21 and arrives in Bangor at 15:07.

How long does the journey from Belfast to Bangor take in minutes?

Handwritten:
$15:07$
$- 14:21$
$00:46$

A 48   B 86   C 28   (D 46)   E 21

35

In a shop, Clare buys:

18 apples at 10p each *= 18×10 = £1·80*
14 bananas at 20p each *= 14×20 = £2·80*
11 oranges at 15p each *= 11×15 = £1·65*
£6·25

Handwritten:
14
$\times 20$
280

15
$\times 11$
15
150
165

What is the total that Clare will pay?

A £5.45   B £4.65   C £7.10   D £11.18   (E £6.25)

36

On Wednesday the temperature in Poland is -13°C and the temperature in Belfast is 11°C.

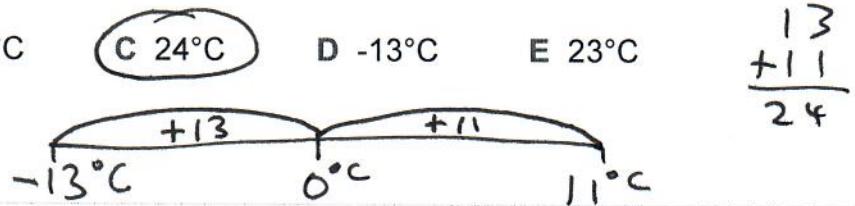**How much higher is the temperature in Belfast than in Poland?**

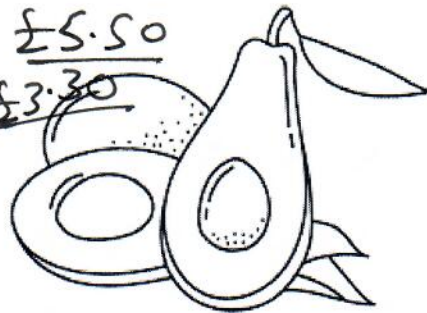A 2°C   B -2°C   C 24°C   D -13°C   E 23°C

$$\begin{array}{r} 13 \\ +11 \\ \hline 24 \end{array}$$

$\underset{-13°C}{\overbrace{\hspace{2cm}}^{+13}} \underset{0°C}{\overbrace{\hspace{2cm}}^{+11}} 11°C$

37

One avocado normally costs £1.10. A special offer lets you buy 5 for the price of 3.

$5 = 5 \times £1.10 = £5.50$

$3 = 3 \times £1.10 = £3.30$

$$\begin{array}{r} 5.50 \\ -3.30 \\ \hline £2.20 \end{array}$$

5 for the price of 3!!!

How much cheaper are the five avocados in the special offer compared with five avocados at the normal price?

A £3.30   B £2.20   C £1.10   D £4.40   E £5.50

38

$1m = 1000mm$

What is 4291 millimetres in meters?
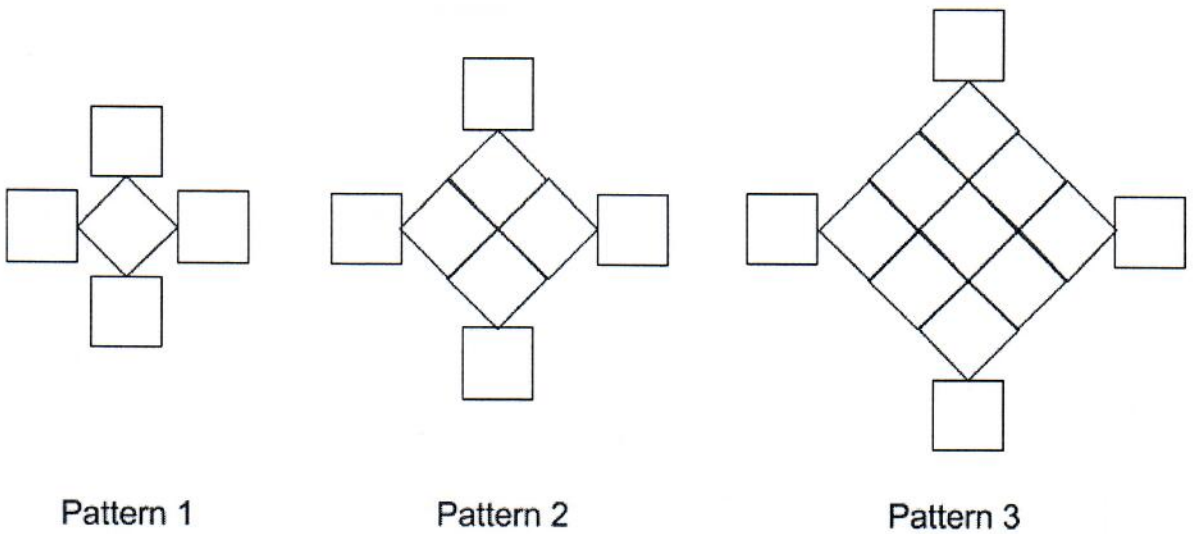
$4.291 \div 1000 =$

A 4.291m   B 42.91m   C 429.1m   D 4291m   E 0.4291m

39

Look at the sequence of 3 patterns below. Each pattern is made up of small squares.

Pattern 1   Pattern 2   Pattern 3

What pattern number would have 148 squares?

A 15

B 8

C 10

D 18

E 12 *(circled)*

1	2	3	4	5	6	7	8	9	10	11	12
5	8	13	20	29	40	53	68	85	104	125	148

+3 +5 +7 +9 +11 +13 +15 +17 +19 +21 +23

or

square numbers + 4

1 + 4

4 + 4

9 + 4

16 + 4

⋮

144 + 4

40

The diagram below shows a square split into 16 equal parts.

Each side of the square measures 20 cm.

$$\frac{25}{4\,|\,\overline{100}}$$

25cm² 25cm²

25cm²

25cm²

25cm² 25cm²

10

10

20cm

$$\begin{array}{r} 25 \\ \times\ 6 \\ \hline 150 \end{array}$$
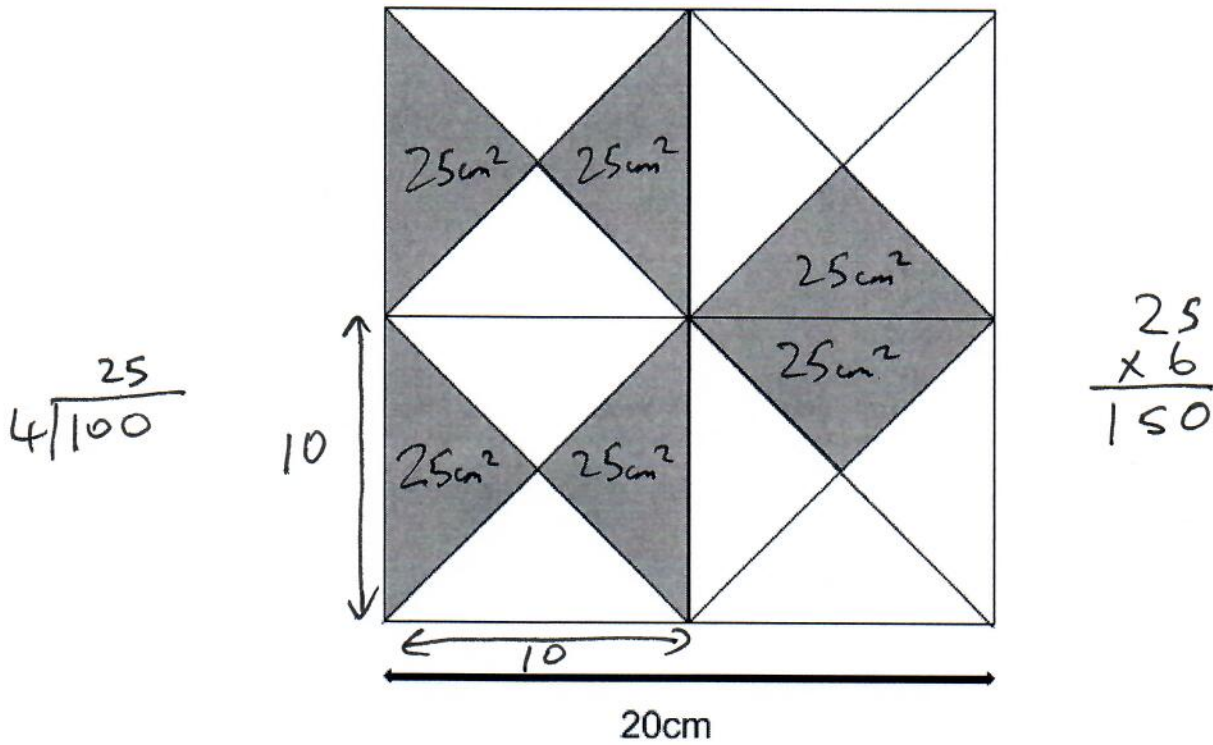
What is the area of the shaded area inside the square?

A 400cm²   B 40cm²   C 150cm²   D 250cm²   E 350cm²

41

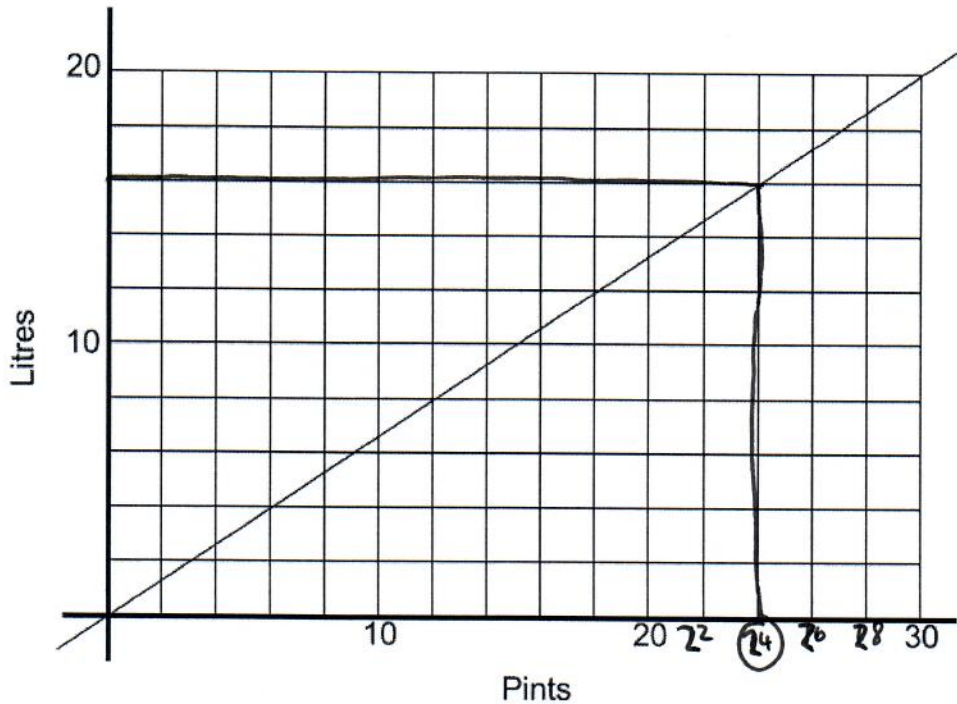**How many seconds are there in $\frac{1}{3}$ of an hour?**

$\frac{1}{3}$ of $60 = 20$

A 20   B 60   C 120   D 1200   E 1800

$$\begin{array}{r} 60 \\ \times\ 20 \\ \hline 1200 \end{array}$$

42

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

Using her graph, what is the conversion of 16 litres to pints?

A 25   (B 24)   C 11   D 30   E 10

43

A map has the following scale: 2 centimetres represents 7 kilometres.

A farm is 63 kilometres from a mountain top.
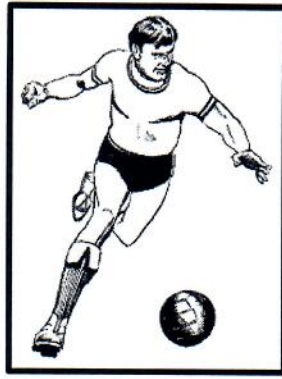
How far apart are they on the map?

A 70cm   B 9cm   C 72cm   D 7.5cm   (E 18cm)

$$\times 9 \left(\begin{array}{c} cm \quad km \\ 2 : 7 \\ \underline{18} : 63 \end{array} \right) \times 9$$
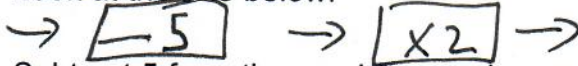
44

Sam is starting a new business venture in school selling football cards. He has 347 cards and he is hoping to sell them for 30p each.

If he sells all the cards how much money will he make in total?

A £104.10
B £117.30
C £96.20
D £74.90
E £111.80

$$
\begin{array}{r}
{}^1\ {}^2\ \\
3.4\,7 \\
\times\ 3\ 0 \\
\hline
£1\,0\,4\cdot1\,0
\end{array}
$$

45

Look at the rule below:

$\rightarrow \boxed{-5} \rightarrow \boxed{\times 2} \rightarrow$
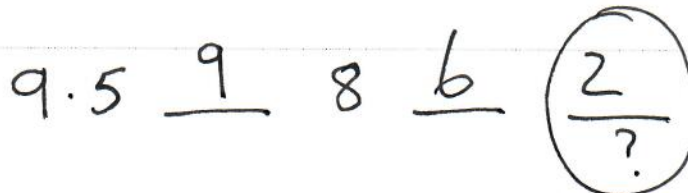
Subtract 5 from the previous number and then multiply by 2.

John uses this rule to write a sequence of 5 numbers. The first number John writes is 9.5. The third number he writes is 8.

What is the fifth number John wites in the sequence?

A 7.5   B 2.5   C 2   D 6   E 5

$$
\begin{array}{r}
9\cdot5 \\
-5\cdot0 \\
\hline
4\cdot5 \\
\times\ 2 \\
\hline
9\cdot0
\end{array}
$$

9.5   9   8   6 $\dfrac{2}{?}$

$8 - 5 = 3$
$\begin{array}{r}\times 2\\\hline 6\end{array}$

$6 - 5 = 1$
$\begin{array}{r}\times 2\\\hline 2\end{array}$

46

Which number is a multiple of 3, 4 and 5?

$$3\overline{)6^{20}} \quad \overset{20}{}$$

$$4\overline{)6^{2}0} \quad \overset{15}{}$$

$$5\overline{)6^{0}} \quad \overset{12}{}$$

A 24   B 30   C 35   (D 60)   E 40

47

There are normally 32 people in Ruth's gymnastics lesson. Today only ~~75%~~ $\frac{3}{4}$ of her gymnastics lesson turn up. Of the people in her gymnastics lesson who turn up, one third arrive late. (24)

How many people in Ruth's gymnastics lesson came late that day?

A 16   B 10   C 24   D 6   (E 8)

$$\overset{\times 3}{\underset{\div 4}{}} \text{ of } 32 = 24$$

$$\div\frac{1}{3} \text{ of } 24 = 8$$

48

Clare had forty three coins in her purse. She had:

three	10p coins	$3 \times 10 =$	30
fourteen	5p coins	$14 \times 5 =$	70
fourteen	2p coins	$14 \times 2 =$	28
twelve	1p coins	$12 \times 1 = + 12$	

$$\begin{array}{r} 14 \\ \times 5 \\ \hline 70 \end{array}$$

$$\overline{140}$$

$$20\overline{)14\cancel{0}} \quad \overset{7}{}$$

At the bank, Clare exchanges these coins for 20p coins.

How many 20p coins did she get?

A 5   (B 7)   C 9   D 8   E 11

49

Zara starts at the number 5 and subtracts 3, four times.
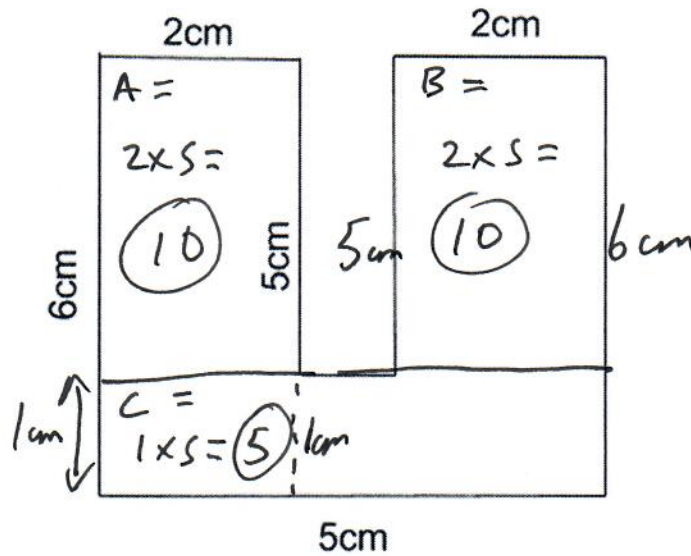
What number does she end up at?

(A -7)   B -15   C 3   D 5   E -8

(-7)-6 -5 (-4)-3 -2 (-1) 0 1 (2) 3 4 5
 (4)   (3)   (2)   (1)

50

Look at the shape below.

2cm   2cm

A =   B =

2×5=   2×5=

(10)   5cm 5cm (10) 6cm

6cm   5cm

C =
1×5=(5) 1cm

1cm

5cm

A = 1 0
B = 1 0
C =+ 5
_____
 2 5

What is the area of the shape above?

A 29cm²
B 27cm²
(C 25cm²)
D 32cm²
E 30cm²

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 pie chart below which shows the amount of goals scored by each person on the school netball team.

Sam

John

Ruth

Grace

$180°$

$30°$ $60°$

$90°$
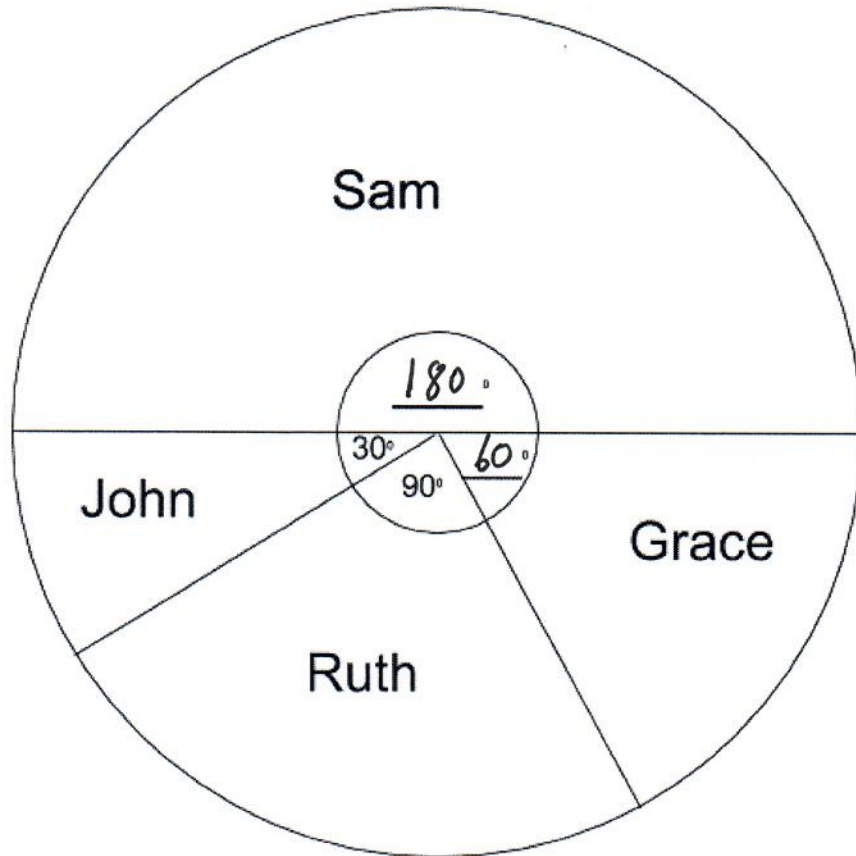
$\begin{array}{r} 30 \\ +90 \\ \hline 120 \end{array}$

$\begin{array}{r} 180 \\ -120 \\ \hline 60 \end{array}$

Around the centre of the pie chart there are two angles missing.

What are the two missing angles?

$180°$ and $60°$

52 Look at the pie chart in Q51 above. Sam scored 24 goals in total.

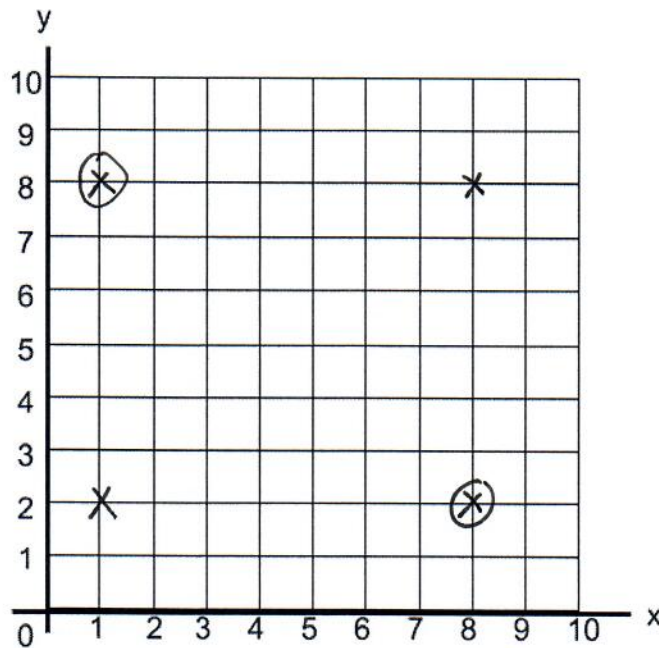$\div 3\left(\begin{array}{c} 180° = 24 \\ 60° = 8 \end{array}\right) \div 3$

How many goals did Grace score for the school team?

8

53

You may find the grid below useful in solving this question.

Two corners of a right-angled triangle have coordinates (1, 2) and (8, 8).

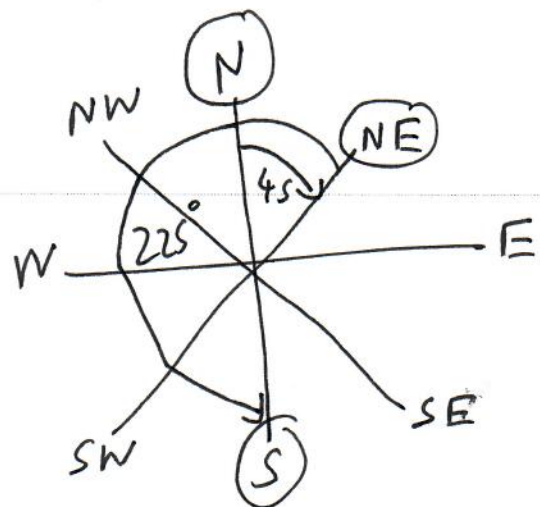**What could the coordinate of the third corner of the right-angled triangle be?**

$(1, 8)$ or $(8, 2)$

54

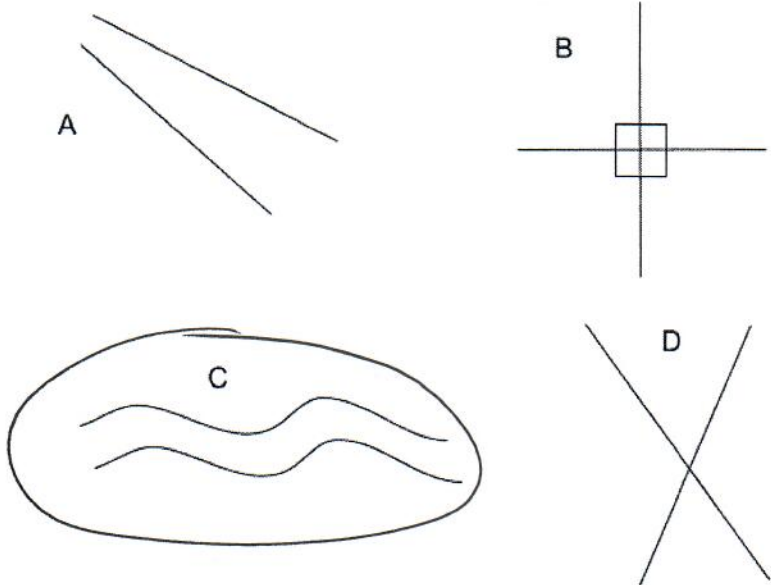You are facing North. You turn 45° clockwise and then 225° anticlockwise.

In what direction are you now facing?

South

55

Look at the different lines below.

A

B

C

D

What letter above represents a set of parallel lines?

C

56

What is six and seven quarters as a decimal number?

6

$$0.2\overset{3}{5}$$
$$\times\ 7$$
$$\overline{1.75}$$

$$6.00$$
$$+\ 1.75$$
$$\overline{7.75}$$

7.75