

STIRLING TUITION
SEAG
Entrance Assessment



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Practice Paper 1
Written Answers

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 After exploring ^{Capital letter} Disney~~l~~and, I highly recommend having dinner at Storyteller's Cafe.

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 Turn down the TV, I can't hear

the an a this that word you are saying!

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 If there is a fire in your house, you must call the fire brigade and get out ^{immediately} ~~mediately~~.

A B C D

Read this passage to yourself.

Elsie was fast asleep, tucked up under the soft covers of her cosy bed. She was dreaming of her birthday four years ago, when her mum had baked a Victoria Sponge cake – Elsie's favourite! She could almost taste it! Elsie often had this dream.

Since rationing had been imposed, eggs, butter - practically everything tasty - was in such short supply. In her dream, Elsie reached forward to grab a piece of that soft, fluffy cake, oozing with jam and cream.

Suddenly, a loud wail ripped through her dream and dragged her back to consciousness. An air raid!

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 Victoria Sponge cakes in the passage?

- A Elsie likes baking Victoria Sponge cakes.
- B Elsie has Victoria Sponge every year on her birthday.
- C Elsie's favourite cake is Victoria Sponge cake.
- D Elsie's mum's favourite cake is Victoria Sponge cake.
- E Elsie's mum doesn't make Victoria Sponge cake anymore because the ingredients are too expensive.

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 "howl"?

wail



Maths – Practice Test

P6

The chocolates in one packet weigh 47g.

Sam is having a birthday party and has purchased 25 single packets for his friends.

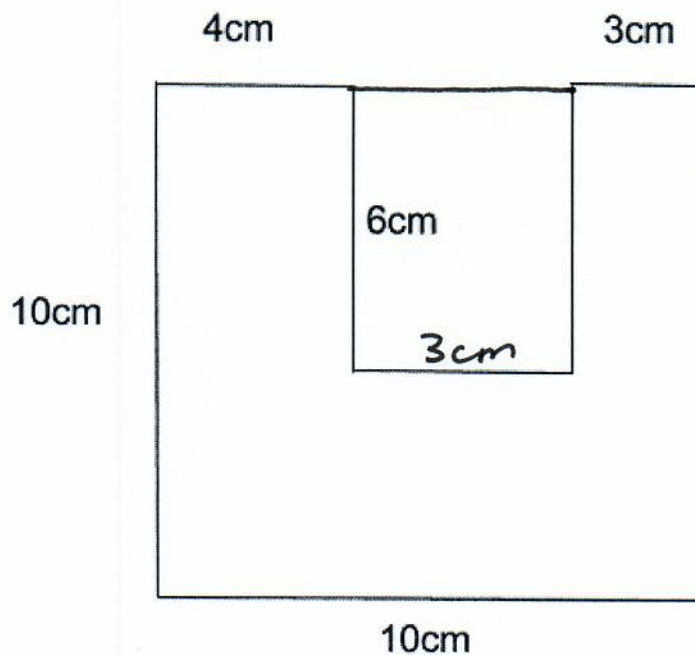
What is the weight of all the chocolates in total in kilograms?

- A 1175g B 1.075kg C 1.175kg D 175g E 1.157kg

$$\begin{array}{r} 47 \\ \times 25 \\ \hline 235 \\ 940 \\ \hline 1175g \end{array}$$

1.175g $\div 1000 = 1.175$ kg

P7



$10 \times 10 = 100 \text{ cm}^2$
 $6 \times 3 = 18 \text{ cm}^2$
 $100 - 18 = 82 \text{ cm}^2$

What is the area of the shape above?

- A 82cm² B 82m² C 52cm D 52m² E 82cm

P8

John arrived home from the shops at 6:37 pm.
 He left for the shops 5 hours and 23 minutes earlier.

$$\begin{array}{r} 18:37 \\ - 5:23 \\ \hline 13:14 \end{array}$$

At what time did he leave to go to the shops in 24 hour clock?

- A 13:14 B 13:24 C 14:14 D 1:14pm E 2:14pm

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 four numbers below are all multiples of 1 and 9.

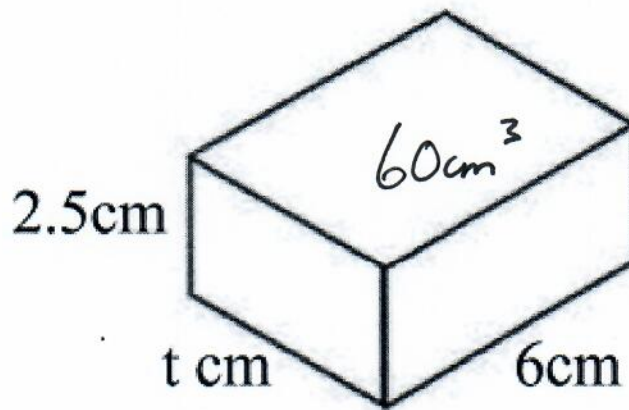
$$\begin{array}{cccc} 27 & 36 & 45 & 108 \\ 3 \times 9 & 3 \times 12 & 3 \times 15 & 3 \times 36 \end{array}$$

$$\begin{array}{r} 036 \\ 3 \overline{)108} \end{array}$$

What other number are these numbers a multiple of?

3

P10



$$\begin{array}{r} 3 \\ 2.5 \\ \times 6 \\ \hline 15.0 \end{array}$$

$$\begin{aligned} 15 \times t &= 60 \\ t &= 4 \end{aligned}$$

or

$$\begin{array}{r} t=4 \\ 2.5 \overline{)10} \\ \underline{6} \\ 60 \end{array}$$

The cuboid above has a volume of 60cm³

What is the length of t?

4



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'm having a party next Saturday afternoon," said Jade. "Will you be able to come?"
A B C D *Question ?*
- 2 Alfie is the goalkeeper on our school football team. He's the best keeper we've ever had.
A B C D *He is = He's*
- 3 "I need to go to the shop before we get on the train," I said. U Will you wait for me?"
A B C D *New speech*
- 4 My sister who is an excellent singer – won first prize in our school's talent competition.
A B C D *Embedded Clause opening*
- 5 It wasn't the first time Ben had forgotten his homework, and it certainly won't be the last!
A B C D *N*

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 The children were as as a
A B C D E
mouse when the teacher was speaking.

7 The football players were proud and excited to receive
 medals from the mayor.
A B C D E

8 You need to go
A B C D E
the park to get to the cafe.

9 I hate broccoli
A B C D E
I think that it tastes disgusting.

10 If the weather is good tomorrow, we
 to the beach.
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 Despite being the youngest person in the one hundred metre race, the athlete came first.
A B C D

12 The plumber says he will come at nine o'clock to install the new washing machine.
A B C D

13 Isn't it embarrassing when your mum kisses you goodbye in front of all your friends?
A B C D

14 I have never read that book before, although I believe that it is very popular with teenagers.
A B C D

15 I am sorry that I forgot my homework, I promise that I will definitely bring it tomorrow.
A B C D N

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

Birthday Surprise

1. Although Hannah loved to lie in at the weekend, she couldn't stay in bed today. No
2. need for an alarm clock, ^{Q16 Action = Narrative} (she bounced out of bed and ran down the stairs) where her
3. mum and dad were having breakfast. ^{Q17} (Unaccustomed to so much activity from her
4. daughter at this early hour.) Hannah's mum asked her, "What are you doing up so
5. early?" Hannah snorted, "Well I could hardly stay in bed on a day like today mum!"
6. Her mum looked blank, "Why, what's so special about today love?" Hannah was
7. shocked, could her mum and dad have forgotten that today was her thirteenth
8. birthday? Hannah's parents glanced at each other with puzzled expression. It was then
9. that Hannah realised - they really *had* forgotten! ^{Q25} ^{Q23}

10. Feeling both angry and hurt, Hannah got up abruptly from the table. Her family had
11. ^{Q27} obviously forgotten about her special day, but she was sure that her friends had not.

(12. Opening her friends group on her phone, she was surprised to see that there were no
13. messages for her. She checked the time and conceded that it was still early. To be fair,

14. ^{Q24} she wouldn't be up this early either if it wasn't her birthday. While the rational part of
15. Hannah's brain knew that this must be the case, there was still a ^{adjective} niggling doubt ^{Q18} which

16. irritated her and just wouldn't go away. Knowing that it would be ^{Q28} inconsiderate to
17. ^{Q24} wake her friends from their weekend lie-in, she put her phone away.) She would

18. message them later, but in the meantime, what should she do? She could either, go
19. down stairs and confront her thoughtless parents or stay in her room all morning.

20. Neither option seemed very appealing, in fact, all Hannah wanted to do was to get as
21. far away from her family as possible.

22. Grabbing her jacket, Hannah stomped down the stairs and flounced out of the front
23. door, ^{Q27} deliberately ignoring her mum who was calling her from the kitchen. She

24. wandered to the park at the end of the street and sat on a swing. She watched as little
25. children ran around the playground, watched by adoring parents. "I bet they wouldn't
26. forget their child's birthday" Hannah reflected glumly as she watched a little girl being

27. pushed on a swing by her dad. "Happy Birthday Hannah," she whispered to herself
28. miserably ^{Q27} (Lost in her thoughts, Hannah didn't notice the dark clouds overhead.) ^{Q19} She
29. didn't notice the parents frantically herding children out of the playground. However,
30. she did notice when the rain started. The heavens opened suddenly. The rain came
31. down in sheets like someone emptying a giant bucket of water right over Hannah's
32. head. Within moments, she was soaked through.

33. Unable to stay at the park, but reluctant to go home, Hannah squelched down the
34. street to her Gran's house. If her Gran was surprised to see a sorry, sodden ^{Q26} girl at her
35. door, she didn't show it. Clucking and fussing ^{Q20} (like) a mother hen, she ushered Hannah
36. into the cosy living room and sat her in front of a roaring fire. Two cups of tea and
37. three slices of cake later, Hannah's mood had improved significantly ^{Q37}. She didn't want
38. to talk about what was upsetting her, and Gran didn't push her. Instead, they spent a
39. relaxing two hours in silence watching one of Gran's old movies.

40. (When the movie was over, Gran insisted on walking Hannah home and she grudgingly
41. complied. The peace and calm of Gran's company had mended her wounded ego and
42. she felt ready to face her parents. Hannah was sure that there was a reasonable
43. explanation. She had to admit that her mum had been under a lot of pressure after
44. starting a new job. Now that Hannah thought of it, her mum had looked more tired
45. and drawn lately and yet she never complained. Hannah resolved to try to be more ^{Q21}
46. understanding, after all, she wasn't a little kid anymore. It was time to grow up.)

47. As she let herself in, she called out, "Anybody home?" She was greeted by silence. Her
48. mood darkening again, she grasped the handle of the living room door and yanked it
49. open.

50. ("SURPRISE!") ^{Q22}

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

What does this story start with?

- A narrative
- B a question
- C a flashback
- D direct speech
- E description

17

'Unaccustomed to so much activity from her daughter at this early hour..'
(lines 3 – 4)

What does this suggest about how Hannah's mum is feeling?

- A She wishes that Hannah was more active.
- B She thinks that Hannah is too active.
- C She is not used to seeing Hannah up so early.
- D She is annoyed with Hannah.
- E She is happy to see Hannah.

18

Look at lines 12–17.

Which statement below best describes how Hannah is feeling about her friends?

- A She hates all her friends because they have forgotten her birthday.
- B She understands why her friends have not sent messages for her birthday.
- C She is worried that her friends have forgotten her birthday.
- D She wants her friends to send her birthday messages.
- E She is hopeful that her friends haven't forgotten her birthday but she isn't sure.

19

Look at lines 24–29.

Why does Hannah not notice that it is going to rain?

- A She is too busy watching the happy families at the park.
- B She notices that it is going to rain but she doesn't care.
- C She is too busy thinking about how everyone has forgotten her birthday.
- D There was no indication that it was going to rain.
- E She is too busy playing on the swing.

20

'Clucking and fussing like a mother hen' (line 35)

Which literary technique is being used in these lines?

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

21

Read lines 40 – 46. Why does Hannah agree to go home?

- A She has had time to calm down and think about things rationally.**
- B She knows that there will be a surprise party for her.
- C She is hungry and she wants her dinner.
- D She is angry with her parents and she wants to confront them.
- E She agrees to go home, but only if her Gran comes with her.

22

Why is this story called 'Birthday Surprise'?

- A because Hannah is surprised that her friends and family have forgot her birthday.
- B because Hannah is surprised that it rained on her birthday.
- C because Hannah's mother is surprised to see her up so early.
- D because Hannah's parents and friends had planned a surprise birthday.**
- E because Hannah is surprised to see her Gran on her birthday.

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

23

Look at lines 6 – 9. What happens to make Hannah realise that her parents have forgotten her birthday?

puzzled expression

24

Look at lines 12 – 17. Why did Hannah not message her friends?

It is early

25

Which word in lines 6-9 means the same as confused?

puzzled

26

Which word in lines 33 – 36 means the same as soaked?

sodden

27

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

obviously (line 11), deliberately (line 23), miserably (line 28),

significantly (line 37)

adverb

28

Which part of speech is “doubt” as it appears in the passage? (line 15)

noun

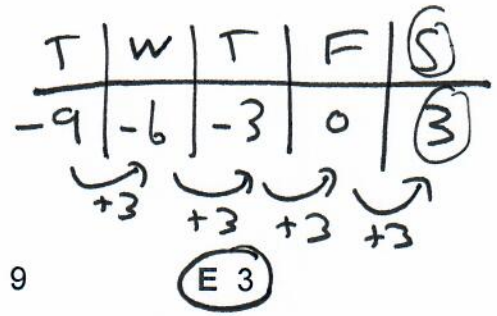
Maths – Practice Test

29

The temperature at noon on Tuesday is -9°C .
The temperature increases by 3°C every 24 hours.

What is the temperature at noon on Saturday?

- A -6 B -3 C 6 D 9



30

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

$1 \times 1 = 1$



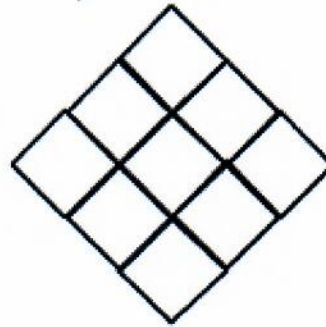
Pattern 1

$2 \times 2 = 4$



Pattern 2

$3 \times 3 = 9$

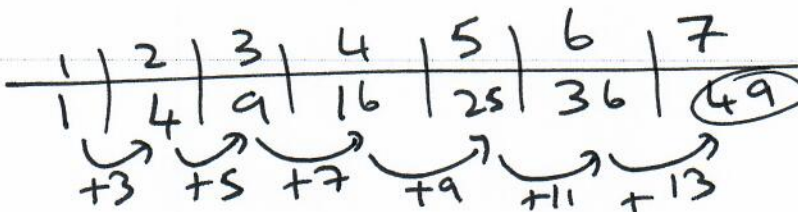


Pattern 3

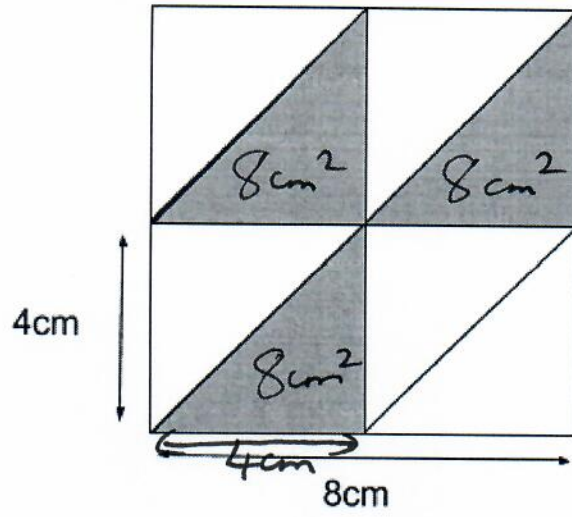
How many squares are needed to make Pattern 7?

$7 \times 7 = 49$

- A 63 B 49 C 39 D 52 E 27



31



$8 \times 3 = 24 \text{ cm}^2$

There is one large square above. Within the large square are four smaller squares, all of equal size. Each side of the large square is 8cm. Each side of the smaller squares is 4cm.

What is the total area of the shaded areas of the large square?

- A 64 cm^2 B 12 cm^2 C 24 cm^2 D 32 cm^2 E 16 cm^2

32

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

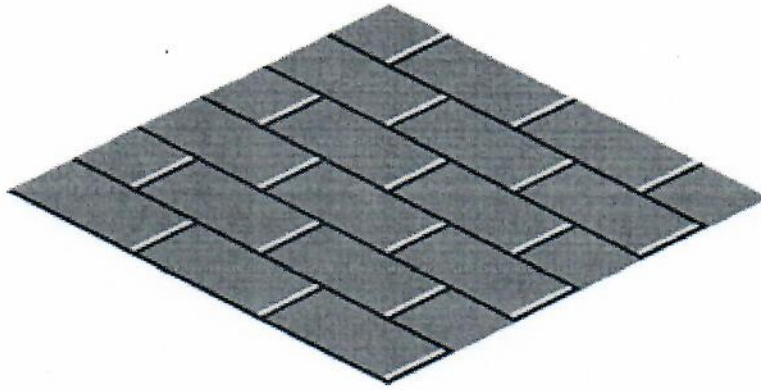


- 1: Annie rolls a $\frac{1}{6}$
- 2: Annie rolls an odd number $\frac{3}{6}$
- 3: Annie rolls a 2 or 5 $\frac{2}{6}$
- 4: Annie rolls a number which is not 1 $\frac{5}{6}$
- 5: Annie rolls a square number $\frac{2}{6}$

Which of the above outcomes is most likely to occur?

- A 1 B 2 C 3 D 4 E 5

33



Barney needs 330 tiles to cover a floor.
The shop only sells the tiles in packs of 25.

How many complete packs will Barney need to cover the floor?

- A 14
- B 10
- C 22
- D 25
- E 13

$$\begin{array}{r}
 13.2 \\
 5 \overline{) 066.0} \\
 \underline{5} \\
 16 \\
 \underline{15} \\
 10 \\
 \underline{10} \\
 0
 \end{array}$$

Need to round up to 14.

34

$$142 - q = 67$$

What is the value of q?

- A 85
- B 199
- C 75
- D 119
- E 209

$$\begin{array}{r}
 1312 \\
 \times 42 \\
 \hline
 2624 \\
 5248 \\
 \hline
 75
 \end{array}$$

35

Ruth and Grace are going to share the cost of a holiday to Greece costing £465.
Grace is going to pay $\frac{2}{5}$ of the price.

How much is Ruth going to pay?

- A £179
- B £186
- C £235
- D £115
- E £279

$$\begin{array}{l}
 \frac{3}{5} \text{ of } 465 = 279 \\
 \frac{3}{5} \times 465 = 279 \\
 \begin{array}{r}
 093 \\
 5 \overline{) 465} \\
 \underline{5} \\
 16 \\
 \underline{15} \\
 15 \\
 \underline{15} \\
 0
 \end{array} \\
 \begin{array}{r}
 93 \\
 \times 3 \\
 \hline
 279
 \end{array}
 \end{array}$$

36

There are 240 pupils in a school. Of these pupils 15% have blonde hair.

85%

How many pupils do not have blonde hair?

$$100 - 15 = 85$$

$$\frac{\times 85}{\div 100} \text{ of } 240$$

$$\begin{array}{r} 2 \\ \times 2.4 \\ \times 85 \\ \hline 120 \\ + 1920 \\ \hline 2040 \end{array}$$

A 130

B 36

C 60

D 204

E 115

37

What is $\frac{18}{30}$ as a percentage?

$$\frac{18}{30} \div 3 = \frac{6}{10} = \frac{60}{100} = 60\%$$

A 30%

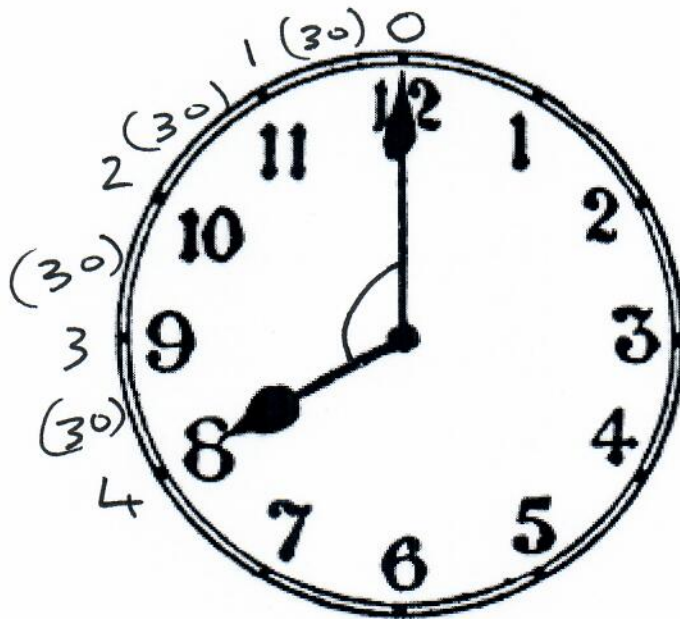
B 60%

C 33%

D 50%

E 18%

38



$$4 \times 30^\circ = 120^\circ$$

What would the size of the obtuse angle, on an analogue clock, be between the hour hand and the minute hand if the time was 8 o'clock?

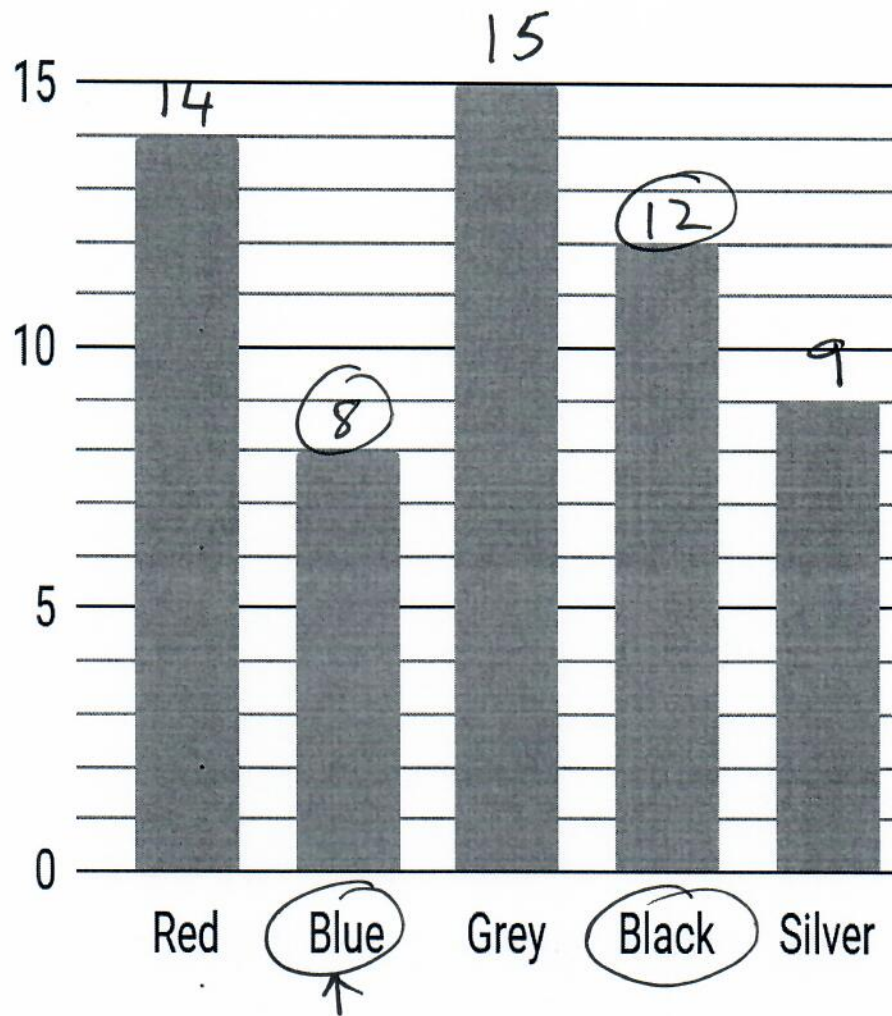
A 120°

B 180°

C 240°

D 90°

E 150°



Clare is doing a survey outside her house to see how many of each different coloured cars drive past her house. The bar chart above shows her results over a two-hour period.

Which colour car recorded was $\frac{2}{3}$ of the amount of another colour of car?

- A Red
- B Blue
- C Grey
- D Black
- E Silver

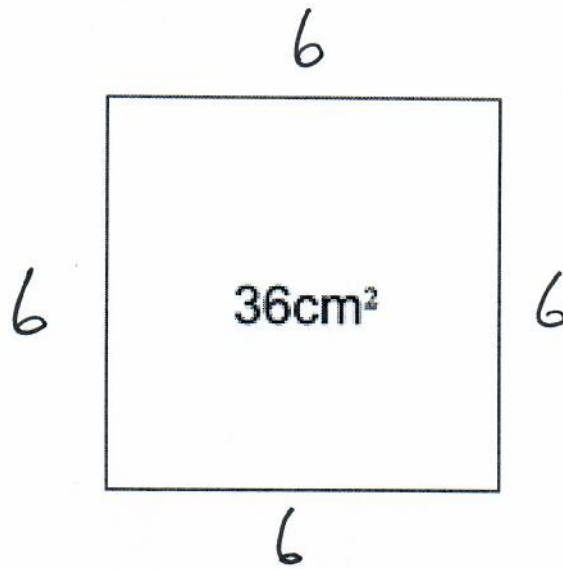
$$\frac{2}{3} \text{ of } 14 = x$$

$$\frac{2}{3} \text{ of } 8 = x$$

$$\frac{2}{3} \text{ of } 15 = 10 \times$$

$$\frac{2}{3} \text{ of } 12 = 8 \checkmark$$

40



$$\underline{6} \times \underline{6} = 36$$

$$6 \times 4 = 24$$

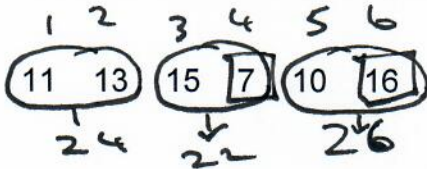
Look at the square above. It has an area of 36cm^2 .

What is the perimeter of the square?

- A 9cm B 36cm **C 24cm** D 12cm E 18cm

41

For a school project, children had to count the number of insects on 6 flowers. The number of insects on each of the 6 flowers is given below.



$$\begin{array}{r} 24 \\ 22 \\ + 26 \\ \hline 72 \end{array} \quad \begin{array}{r} 12 \\ 6 \overline{) 72} \\ \underline{60} \\ 12 \\ \underline{12} \\ 0 \end{array}$$

mean = 12

What is the mean and range of the set of numbers?

- A Mean = 12 Range = 6
 B Mean = 13 Range = 9
 C Mean = 12 Range = 7
D Mean = 12 Range = 9
 E Mean = 10 Range = 9

$$16 - 7 = 9$$

Range = 9

42



$$\begin{array}{r} 1.40 \\ \times 3 \\ \hline 4.20 \end{array}$$

$$\begin{array}{r} 1.40 \\ \times 2 \\ \hline 2.80 \end{array}$$

$$\begin{array}{r} 4.20 \\ - 2.80 \\ \hline 1.40 \end{array}$$

→ or → You get 1 free.

A set of football cards normally costs £1.40 at the local shop. They have an offer for 3 for the price of 2.

How much cheaper are the three sets of football cards in their offer compared with three sets of football cards at the normal price?

A £4.20

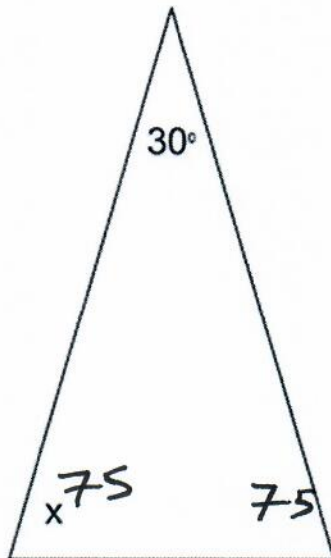
B £0

C £2.50

D £2.80

E £1.40

43



$$\begin{array}{r} 180 \\ - 30 \\ \hline 150 \\ 2 \overline{) 150} \\ \underline{75} \end{array}$$

The triangle above is an isosceles triangle.

What is the size of angle x?

A 80°

B 150°

C 30°

D 115°

E 75°

44

Sam is having a party.
He has bought 12.8 litres of lemonade.
Each cup holds 250ml of lemonade.

$\downarrow = \frac{1}{4} L$

25¢ $\overline{)12800}$
 \downarrow
 0.512
 $5 \overline{)02256.10}$
 $5 \overline{)122830}$

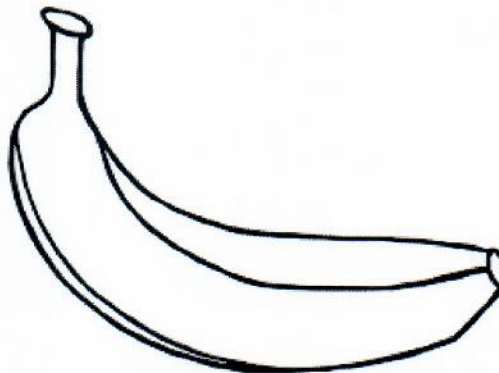
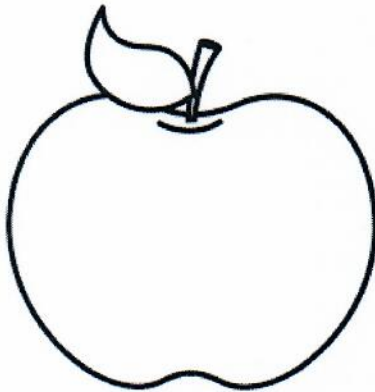
How many full cups can he fill during party?

- A 12 cups
- B 51 cups**
- C 4 cups
- D 25 cups
- E 56 cups

$12 = 48$
 $0.8 = \frac{3}{51}$ or

or
 $\begin{array}{r} 3 \\ 12.8 \\ \times 4 \\ \hline 51.2 \end{array}$

45



In a shop, John buys:

£1.80 12 apples at 15p each

£1.50 6 bananas at 25p each

£5.00 5 mangoes at £1 each
 $\underline{\hspace{1cm}}$
 £8.30

$\begin{array}{r} 12 \\ \times 15 \\ \hline 60 \\ 120 \\ \hline 180 \end{array}$

$\begin{array}{r} 25 \\ \times 6 \\ \hline 150 \end{array}$

$\begin{array}{r} 9 \\ \times 0.100 \\ \hline 8.30 \\ - \\ \hline 1.70 \end{array}$

How much change will John get from a £10 note?

- A £2.70
- B £8.30
- C £1.50
- D £1.70**
- E £0.50

46

Maddy makes up the following rule below to test her friend Ruth:

← $\div 2$ 54 +3 ← 51
Multiply the previous number by 2 and then subtract 3

Ruth continues the sequence.

$$\begin{array}{r} 27 \\ 2 \overline{)54} \end{array}$$

Which number comes before 51 in the sequence?

A 99

B 48

C 27

D 64

E 31

47

What is 12:27 am in 24 hour clock?

A 00:27

B 01:27

C 00:25

D 13:07

E 12:27

48

$$\clubsuit + 5 = 12$$

$$12 - 5 = \textcircled{7}$$

$$48 \div \spadesuit = 12$$

$$48 \div 12 = \textcircled{4} \leftarrow$$

$$\heartsuit \times 4 = 36$$

$$36 \div 4 = \textcircled{9}$$

$$19 - \diamondsuit = 13$$

$$19 - 13 = \textcircled{6}$$

$$\bullet - 5 = 3$$

$$3 + 5 = \textcircled{8}$$

Which symbol has the smallest value?

A \clubsuit B \spadesuit C \heartsuit D \diamondsuit E \bullet

49

Derek thinks of a number.

He adds 7 to it and then multiplies by 6. $\div 6$
 His answer is 54.

$$9 - 7 = 2$$

$$6 \overline{) 54}$$

What number did Derek think of?

A 317

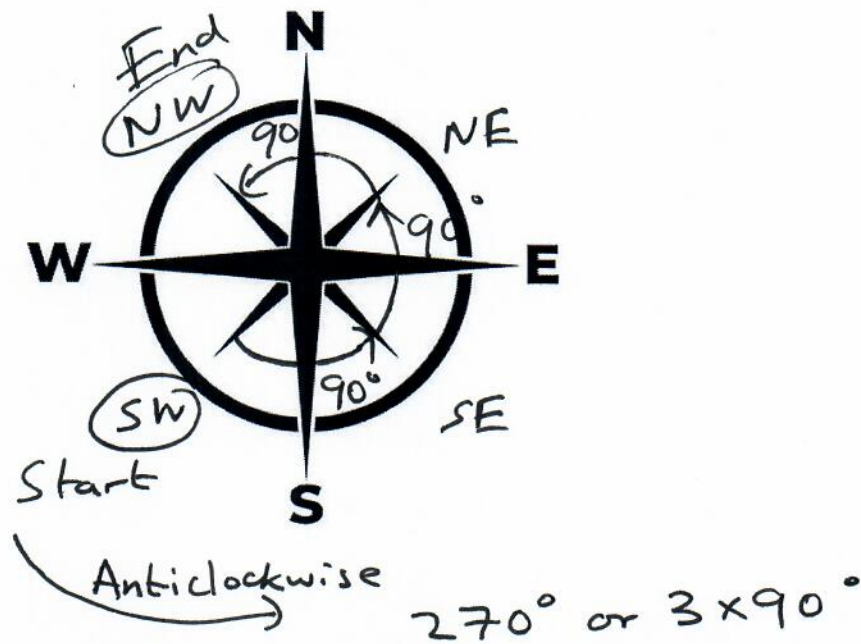
B 12

C 16

D 331

E 2

50



Jennifer is facing South West. She turns three quarters of a turn anticlockwise.

In which direction is she now facing?

A North West

B North East

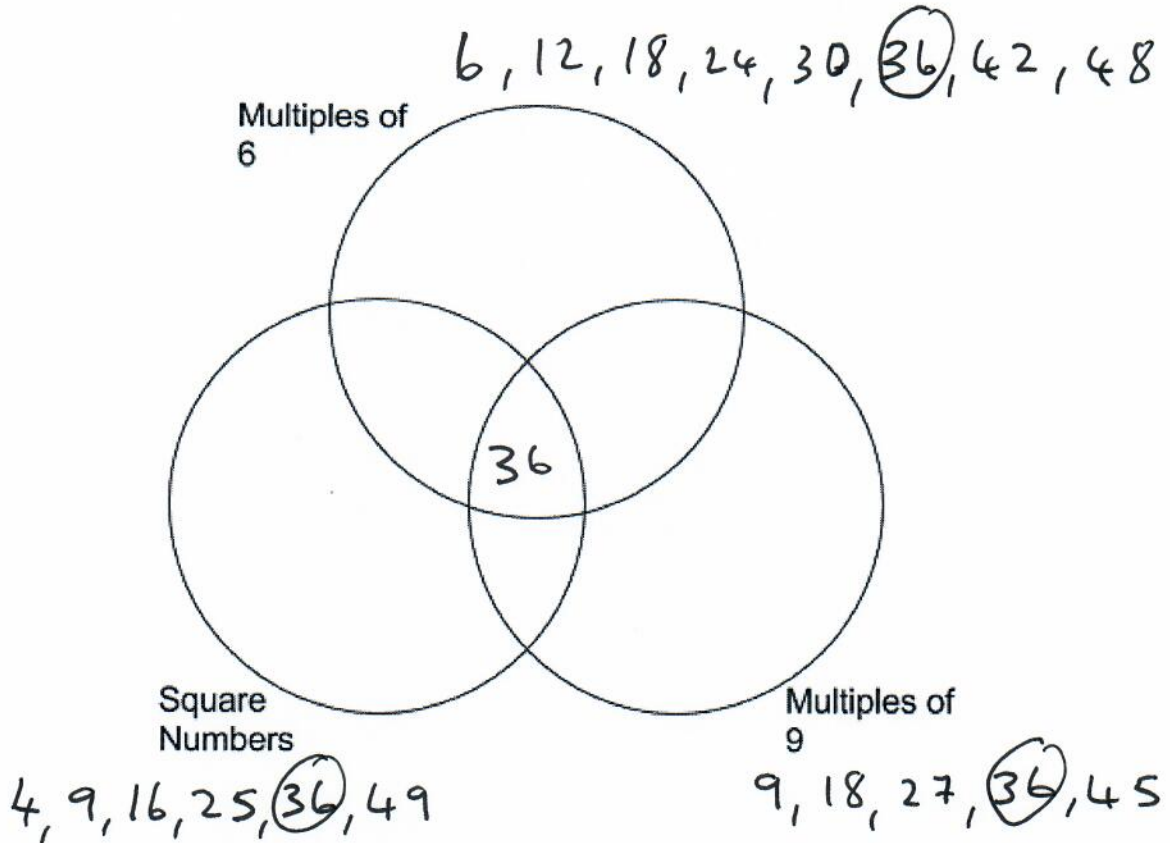
C East

D North

E South West

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



What number between 1 and 50 would go in the middle section of the Venn diagram?

36

52

How many hours and minutes is 283 minutes?

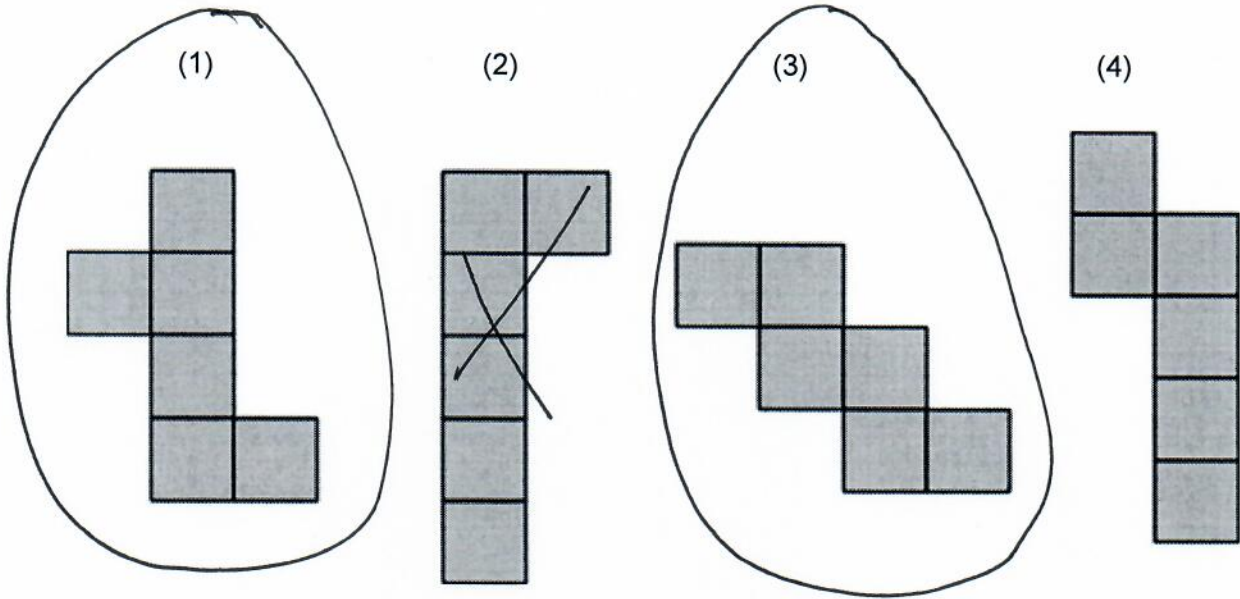
60 = 1
120 = 2
180 = 3
240 = 4 ←
300 = 5

$$\begin{array}{r} - 240 \\ 043 \end{array}$$

4 hours 43 mins

53

Look at the cube nets below.

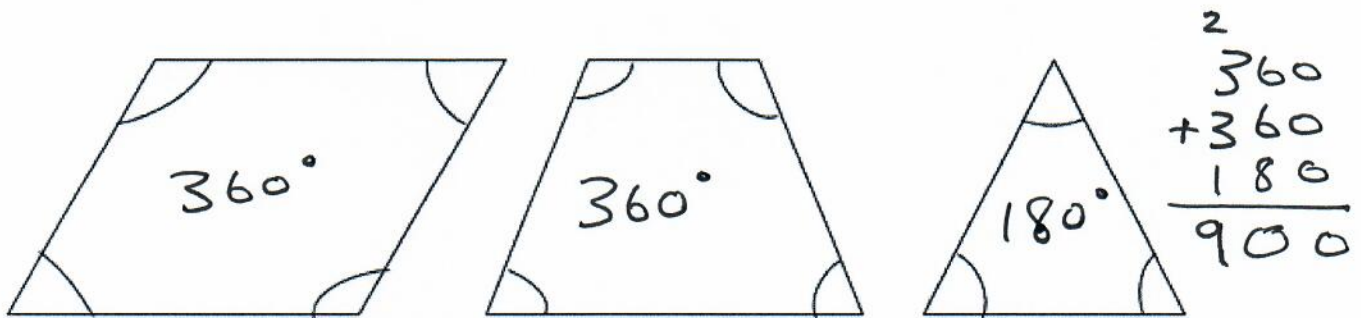


Which two nets will fold to make a complete cube?

1 and 3

54

Look at the 3 shapes below.



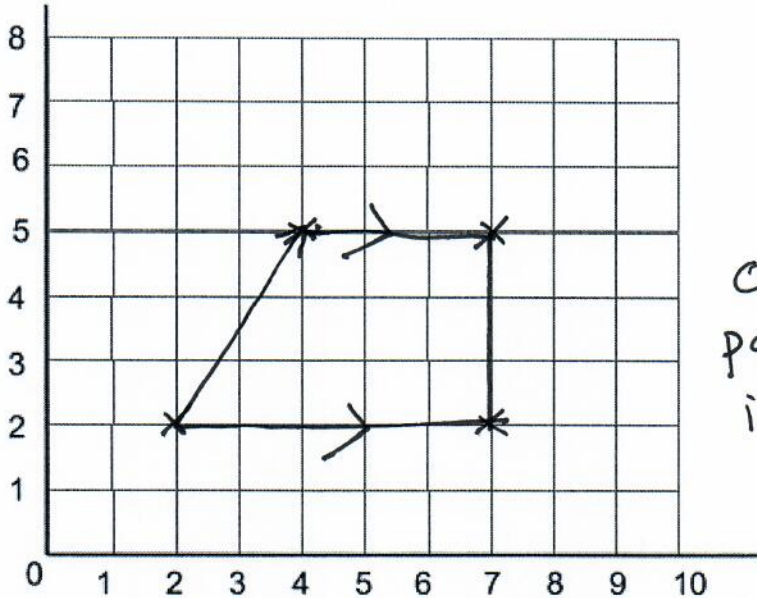
What is the total of all the angles in the two quadrilaterals and in the triangle?

900°

55

Plot the following coordinates on the grid below.

(2, 2) (4, 5) (7, 5) (7, 2)



One set of parallel lines in a quadrilateral = trapezium.

What is the name of the quadrilateral that is created by joining up the coordinates?

Trapezium

56

At a school sports day Patrick jumps 147 cm in the long jump.

Sam jumped 0.06 m further than Patrick.

How far did Sam jump in metres?

$$1.47 \div 100 = 1.47m$$

$$\begin{array}{r} 1.47 \\ + 0.06 \\ \hline 1.53 \end{array}$$

1.53m