

## St Olaves Stage 2

### English – Section One

5 The morning sun, typically adorning the sky with its hues of gold and  
amber, now bore an eerie resemblance to a withered sunflower.  
Even the younger ones stopped their gleeful games, exchanging  
apprehensive glances among themselves. An unprecedented beast  
must be approaching the heart of the serene Brooken Valley.

10

And what a calamitous and tumultuous one it was. Birds were the  
initial evacuees, soaring into the sky in a frenzied exodus, forsaking  
their nests and abodes without hesitation. The same, however, could  
not be said about their human counterparts. Only when a deafening  
15 roar erupted from the very core of the mountains that had vigilantly  
shielded Brooken Valley for centuries did the more experienced  
villagers finally resolve to take drastic measures.

But, it was far too late.

20

Their fleeing feet trembled, and most failed to stand steady upon the  
realization of the impending doom; the sudden and savage  
shuddering of the earth was the catalyst. Buildings swayed like reeds  
in the wind, and the once-clear stream that meandered through the  
25 village became a turbulent torrent, swallowing everything in its  
path.

Panic engulfed Brooken Valley as villagers rushed for safety, their  
world, figuratively and literally, collapsing around them. The  
30 thunderous rumbling of the mountains, like a ravenous wolf, was  
relentless, and a cacophony of terrified screams filled the air.  
Exposed skin would be hurt by scattered rocks and soaked by  
wandering water. It was as if the world was covered in a shade of  
crimson; danger was anywhere.

35

The aftermath was not pretty. The remnants of despair imprinted themselves deep inside each one's mind. But the wind of hope soon came, and neighbours reached out to save one another, pulling the injured from the debris and offering solace to the frightened.

40 Brooken Valley was not destined to succumb so easily. The village that had stood for generations was forever altered, yet the people of Brooken Valley were not. They emerged from the rubble, their spirit unbroken, ready to rebuild their lives and their beloved village.

45 With unwavering resolve and determination, the scars on the land would heal, coming back stronger than ever. The waning sun cast its warm light on the ruins; the Phoenix will soon rise!

English Comprehension: Questions 1-4 Question 1-4 only require one answer.

1. What event does the passage describe exactly?

- A. An unexpected thunderstorm
- B. The approach of an unfamiliar visitor
- C. An impending earthquake
- D. A bountiful harvest
- E. A festival celebration

2. Which of the following is a simile used in the passage?

A. "Their fleeing feet trembled "

B. " The thunderous rumbling of the mountains, like a ravenous wolf, was relentless"

C. "The remnants of despair imprinted themselves deep inside each one's mind"

D. "An unprecedented beast must be approaching the heart of the serene Brooken Valley"

E. "Birds were the initial evacuees, soaring into the sky in a frenzied exodus"

3. In line 6, "An unprecedented beast must be approaching the heart of the serene Brooken Valley." What is the language device used here?

A. Personification

B. Simile

C. Metaphor

D. Alliteration

E. Affix

4. What does the metaphor "Buildings swayed like reeds in the wind" convey about the state of the buildings during the earthquake?

- A. They were sturdy and unshaken.
- B. They were fragile and unstable.
- C. They were heavy and unmovable.
- D. They were colorful and vibrant.
- E. They were invisible and intangible.

English Comprehension: Questions 5 to 12

5. How does the author use symbolism to represent hope in the passage?

- A. By describing the birds' exodus
- B. By mentioning the turbulent stream
- C. By referring to the waning sun
- D. By comparing villagers to reeds
- E. By describing the shuddering earth

6. What does the term "cacophony" mean in the passage?
- A. A harmonious melody
  - B. A harsh and discordant noise
  - C. An extremely loud sound
  - D. A horrifying look
  - E. A gentle breeze
7. Which word is a synonym for "unprecedented" as it's used in the text?
- A. Uncommon
  - B. Unforeseen
  - C. Usual
  - D. Unbelievable
  - E. Uncertain
8. What does the phrase "figuratively and literally" mean in the sentence, "their world, figuratively and literally, collapsing around them"?
- A. Only in their imagination
  - B. In a symbolic and real sense
  - C. In a physical and tangible way
  - D. Only in their dreams
  - E. In a beautiful manner

9. How do the villagers demonstrate resilience in the face of disaster, according to the passage?

- A. They flee in panic without helping each other.
- B. They ignore the earthquake and continue their activities.
- C. They come together, offer help, and prepare to rebuild.
- D. They blame each other for the disaster.
- E. They celebrate the earthquake as a miracle.

10. What is the significance of the waning sun at the end of the passage? How does it relate to the theme of the story?

- A. It signifies the end of the world.
- B. It represents the darkness that follows disaster.
- C. It symbolizes rebirth and renewal.
- D. It indicates the onset of a storm.
- E. It foreshadows another earthquake.

11. Which sentence contains an example of alliteration? (Mark two answers on the answer sheet)

A. "Even the younger ones stopped their gleeful games..."

B. "Panic engulfed Brooken Valley as villagers rushed for safety."

C. "...the sudden and savage shuddering of the earth was the catalyst."

D. "Buildings swayed like reeds in the wind."

E. "The aftermath was not pretty."

12. Which two senses are not described in paragraph 4? (Mark two answers on the answer sheet)

A. Touch

B. Sight

C. Sound

D. Smell

E. Taste

### **Climbing My Grandfather**

I decide to do it free, without a rope or net.

First, the old brogues, dusty and cracked;  
an easy scramble onto his trousers,  
pushing into the weave, trying to get a grip.

By the overhanging shirt I change  
direction, traverse along his belt  
to an earth-stained hand. The nails  
are splintered and give good purchase,  
the skin of his finger is smooth and thick  
like warm ice. On his arm I discover  
the glassy ridge of a scar, place my feet  
gently in the old stitches and move on.

At his still firm shoulder, I rest for a while  
in the shade, not looking down,  
for climbing has its dangers, then pull  
myself up the loose skin of his neck  
to a smiling mouth to drink among teeth.

Refreshed, I cross the scree cheek,  
to stare into his brown eyes, watch a pupil  
slowly open and close. Then up over  
the forehead, the wrinkles well-spaced  
and easy, to his thick hair (soft and white  
at this altitude), reaching for the summit,  
where gasping for breath I can only lie  
watching clouds and birds circle,  
feeling his heat, knowing

the slow pulse of his good heart.

ANDREW WATERHOUSE



In *Climbing My Grandfather*, how does the speaker convey their feelings towards their grandfather through the metaphor of climbing?

(You are advised to write one paragraph but no more than half a side of A4 for your answer.)

Explain carefully what you understand by the following quotations:

(a) "The skin of his finger is smooth and thick like warm ice."

(b) "Feeling his heat, knowing the slow pulse of his good heart."

(You are advised to write one paragraph but no more than a quarter of a side of A4 for your answer.)

### **English Section Two (Part B)**

Write a letter to a friend or relative to describe a special day you recently spent with someone close to you. You should include:

- How you felt during this day and why it was memorable
- What activities or moments stood out to you
- Any thoughts or reflections on what the experience meant to you

You can plan your work in any way that you find helpful (spidergram/brainstorm/bullet points) before you start writing.

Remember to check and correct your work before the end of the test.

(You are advised to write in pen at least two paragraphs but no more than one side of A4 for your answer.)

# Maths Problem Solving

1 Work out  $4 - 1\frac{7}{12}$ .

2 Put the following numbers in order starting with the smallest.

$$1.9, \frac{26}{25}, 1\frac{3}{7}, 150\%$$

3 From Year 10 all pupils must join the Combined Cadet Force ("CCF") or opt for School Community Service ("SCS"). Pupils can not opt for both CCF and SCS.

Rachel asked 150 Year 9 pupils whether they wanted to opt for CCF or SCS next year.

60% of the pupils said that they wanted to opt for CCF.

$\frac{1}{6}$  of the pupils said that they wanted to opt for SCS.

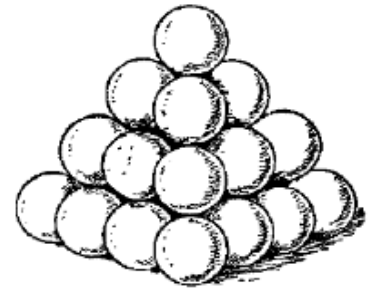
The rest of the pupils said that they hadn't yet decided.

How many pupils hadn't yet decided whether to do CCF or carry out SCS next year?

4 This mystery number has 4 digits.  
Every digit is an odd number.  
None of the digits is a 9.  
Every digit in the number is different.  
The smallest digit is in the thousands place.  
The greatest digit is in the ones place.  
This describes two possible numbers.  
The mystery number is the greater of those two numbers. What is the mystery number?

5 120 can be written as  $2^a \times 3^b \times 5^c$   
Work out values for a, b and c.

- 6 The picture on the right shows a triangular stack of cannonballs. How many cannonballs are there in the stack?



- 7 Three bus services stop at my bus stop. Service A departs every 3 minutes, service B every 5 minutes and service C every 8 minutes.

If all three services leave my stop at 10.00 a.m., at what time will they next leave my stop together? (Assume that all three services always run on time).

- 8  $\otimes$ ,  $\square$ ,  $\blacklozenge$  stand for numbers and keep their own values in the 4 equations. Find the numbers  $\otimes$ ,  $\square$ ,  $\blacklozenge$

$$1 + \square = 6 \quad \text{a) } \square = ?$$

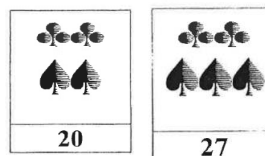
$$\blacklozenge - \square = 2 \quad \text{b) } \blacklozenge = ?$$

$$\blacklozenge + \otimes = 9 \quad \text{c) } \otimes = ?$$

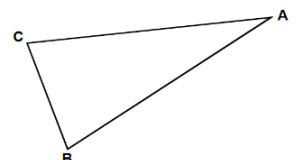
$$\square + \otimes = \blacklozenge$$

- 9 On the cards below, each club  $\clubsuit$  has the same value and each spade  $\spadesuit$  has the same value (but a different value to each club).

The number on each card is the total value of the symbols on that card. Find the value of one club  $\clubsuit$



- 10 Triangle ABC is isosceles and has a perimeter of 20 centimetres. Sides AB and AC are each twice as long as BC.



Calculate the length of the side BC.

11 Seven *consecutive* whole numbers add up to 7357.

What is the largest of the seven numbers?

12 Geraint weighs 60 kilograms and Andrew weighs 125 pounds. Using  $1 \text{ kilogram} = 2.2 \text{ pounds}$ , work out by how many pounds Geraint is heavier than Andrew.

13 I need exactly 1 litre of water.  
I have a measuring jug that holds 400 ml when it is full.

Explain how I can use my measuring jug to obtain 1 litre of water.

14 Gill's garden is 48 m long and 10 m wide and she wants to cover it with peat which comes in 60 kg sacks. 10 kg of peat covers an area of  $20 \text{ m}^2$ .

How many sacks of peat does Gill need for the whole garden?



15 It takes 2 men 3 days to build a wall. To answer these questions, assume that all men work at the same rate all the time and take no breaks! You may use fractions, where necessary.

i) How long would it take 10 men to build 6 such walls?

ii) How long would it take  $y$  men to build  $x$  such walls?

16 Jane is 4 years older than Andy and Andy is 2 years older than Tom. If Jane is twice as old as Tom, how old are Andy, Tom and Jane?

17 In four years time, Sam will be twice as old as he was four years ago. Calculate Sam's current age.

18 Becky is  $10\frac{1}{2}$  years old.

Her brother is exactly 1 year and 8 months younger than Becky.

How old is her brother?

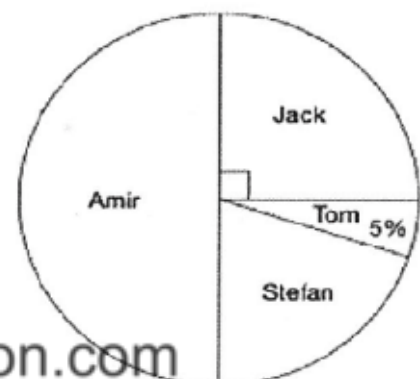
- 19
- How long does it take the 07:42 train from Hastings to get to Battle?
  - Jessica arrives at Crowhurst at quarter-to-eight. How long must she wait for a train to Etchingham?
  - Which is the latest train I can catch at Hastings to make sure I get to Robertsbridge by half past 8?

Hastings	0730	0742	0755	0807
St Leonards	0738	-	0803	0815
Crowhurst	0744	-	0809	0821
Battle	0751	0759	0816	0828
Robertsbridge	0756	0805	0821	0833
Etchingham	0802	0812	-	0839
Stonegate	0806	0816	0830	0843

20 40 children predicted who would win the boys' *Call of Duty* competition.

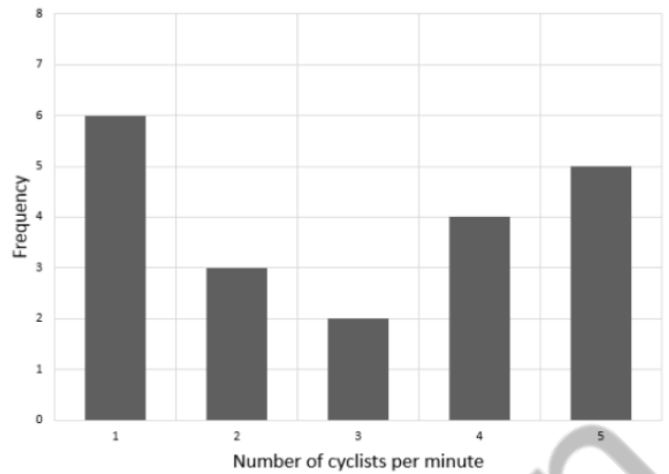
The pie chart below shows their predictions.

How many children predicted that Stefan would win?



21

- (a) What was the largest number of cyclists to pass in one minute?
- (b) What was the most frequent number of cyclists per minute?
- (c) For how many minutes, in total, was Sarah recording cyclists?



22 A school teaches French and German. All 165 pupils in year 9 study at least one language. Some pupils study just French, others study just German, and some study both French and German.

In total 112 pupils study French, and 92 pupils study German. How many pupils study only one language?

23 At a garden party there are 7 trays of sausages with a mean average of 13 sausages per tray. Just before the guests are allowed in, the head chef brings out another tray containing 21 sausages. What is the mean average number of sausages on the trays now?

24 List the letters in the word which have **exactly one** line of symmetry?

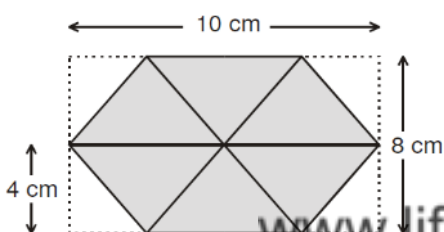
HEXAGON

25 A box for coffee is in the shape of a hexagonal prism.



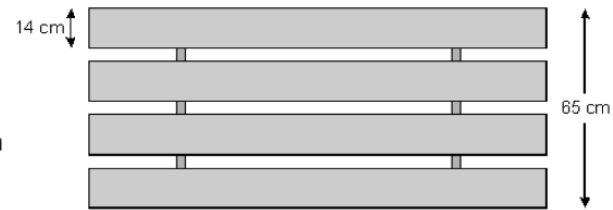
One end of the box is shown below.

Each of the 6 triangles in the hexagon has the same dimensions.

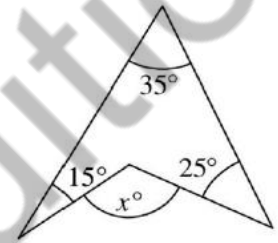


Calculate the total **area** of the hexagon.

- 26** Tariq wants to use four planks of wood to make the top of a table. Each plank of wood is **14 cm** wide. He wants the table to be **65 cm** wide with **equal spaces** between the planks of wood.
- How much space should he leave between each of the planks of wood?

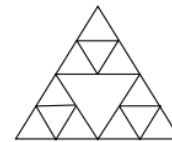


- 27** What is the value of  $x$ ?

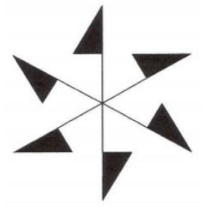


- 28** Two blocks of wood have the same volume. One is 18 cm long, 15 cm wide and 24 cm high. The other is 9 cm long and 12 cm wide. How high is the second block?

- 29** (a) How many lines of symmetry does shape (i) have?  
 (b) What is the order of rotational symmetry for shape (ii)?

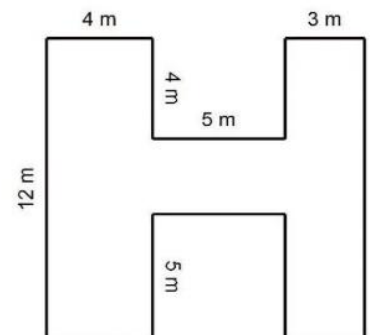


(i)



(ii)

- 30** Work out the area of the shape.

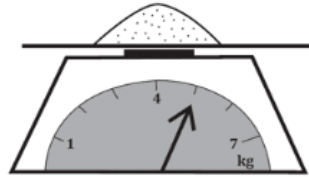




- 31 Athena is making a cake, below is a diagram of some of the ingredients on the scales already. She additionally needs to add 300g of currants, 33g of orange peel and 1000g of butter.

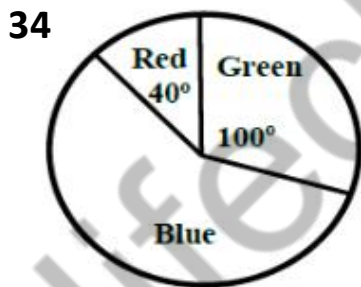
What is the total weight of all the raw ingredients of the cake?

Give your answer in kg.



- 32 At the market, pineapples cost £1.40 each and mangoes cost 80 pence each. Maddie spent the same amount on pineapples as she did on mangoes. Given that she bought at least one of each fruit, what is the smallest amount she could have spent?

- 33 Bill sold his motor scooter to Tom for £120. After driving it for a few days, Tom discovered it was in such a broken-down condition that he sold it back to Bill for 30% less than he paid. The next day Bill sold it to Jack for £90. What is Bill's profit on the final sale?



*Pie chart shows the favourite colours of a class of students*

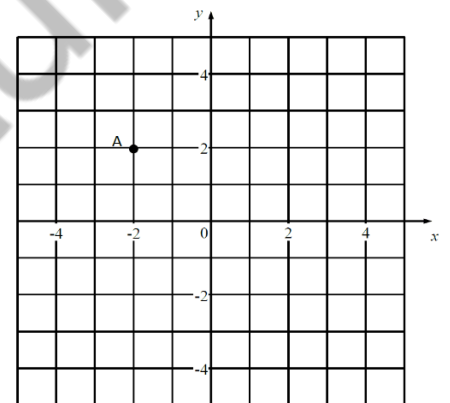
What is the probability that a student chosen at random prefers Green?  
Give your answer as a fraction in its simplest form.

- 35 Chris runs round a track at a speed of 6 km/hour.  
Dave runs round the same track at a speed of 9 km/hour.  
When Chris has run 18 laps, how many laps has Dave run?

**36** In a chess league there are 3 teams and they all play each other once. How many matches are there altogether?

**37** Krish's school day starts at 8.30 am. Before break, he has three 45-minute lessons, with a 5 minute "moving period" between lessons. Break starts as soon as lesson 3 ends. At what time does break start ?

**38** Plot the point (4, -2) and label it B.  
Plot the point that is midway between A and B  
and write down its coordinates

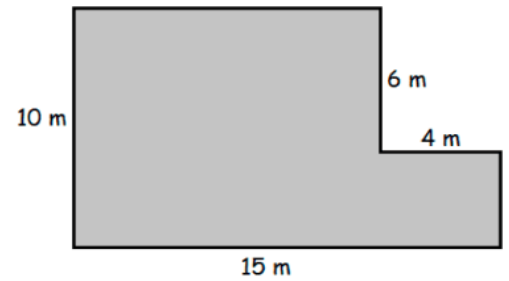


**39** I got 30% on a 10-problem test, 70% on a 20-problem test and 80% on a 30-problem test.  
If the three tests are combined into one 60 – problem test, what percentage is my overall score?

**40**  $P = 9a - 7b^2$

Work out the value of P when  $a = 3$  and  $b = -2$

- 41 Calculate the perimeter of the shape,



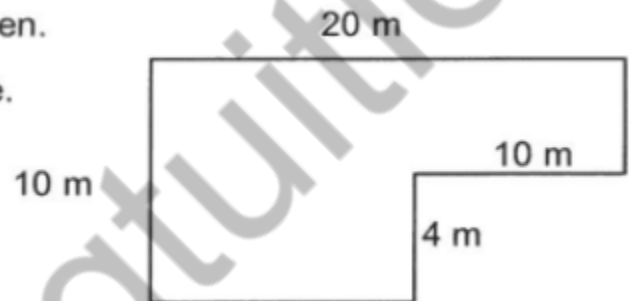
- 42 Armand is buying grass seed for his garden.

The lawn he wishes to make is this shape.

Grass seed is sold by the bag.

Each bag costs £10 and covers  $3 \text{ m}^2$ .

How much will it cost him?



- 43 Chi is facing North East. In which direction will he be facing if he turns clockwise through 3 right angles?

- 44 How many minutes are there in one day?

- 45 Martin the builder needs to build a wall 19 bricks wide and 14 bricks high.

He can lay 7 bricks every 5 minutes. How long will it take him to build the wall?