



FOREST SCHOOL

2016

11+

ENTRANCE

AND

SCHOLARSHIP

PAPERS

**FORESTSCHOOL
ENTRANCE EXAMINATION
MATHEMATICS**

Calculators are **NOT** allowed
You are advised to show your working
Time: One hour

NAME.....

CANDIDATE NUMBER.....

1 Work out $78 + 916$

ANSWER.....

2 Work out $567 - 89$

ANSWER.....

3 Work out 246×8

ANSWER.....

4 Work out $234567 \div 9$

ANSWER.....

5 How many hours are there in 2 weeks?

ANSWER.....

TURN OVER

- 6 Eve bought 4 pencils and 5 crayons.
Each pencil cost 22p.
She paid with a £2 coin and received 32p change.
How much did each crayon cost?

ANSWER.....

- 7 What fraction is bigger: two thirds or three quarters?
You must justify your answer clearly.

ANSWER.....

- 8 Write in digits the number two million, twenty thousand and twenty.

ANSWER.....

9 How many grams are there in 0.0025 kilograms?

ANSWER.....

10 Gurveen is buying paint and there are three sizes of can to choose from:

One 2 litre can costs £15

One 3 litre can costs £20

One 4 litre can cost £25.

Which size is the best value for money?

Justify your answer carefully.

ANSWER.....

REASON.....
.....
.....
.....

TURN OVER

- 11** Bill and Ben are packing Easter eggs in crates. They have a total of 103 Easter eggs to pack.

After a while Bill has filled 5 crates and has 12 Easter eggs left over, and Ben has filled 3 crates and has 19 Easter eggs still to pack.

How many Easter eggs fit in each crate?

ANSWER.....

- 12** Calculate $4\frac{1}{2} - 1\frac{3}{4}$

ANSWER.....

- 13** Alana has to take 10 millilitres of medicine three times a day.
How long would a 180 millilitre bottle last her?

ANSWER.....days

- 14** Tomasc adds the same number to 23 and to 8 so that the first is then double the second. What was the number he used?

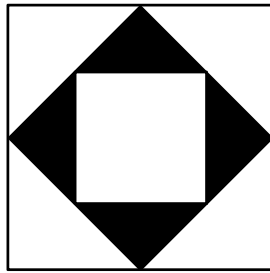
ANSWER.....

- 15** My father was 31 on my 8th birthday.
How old will he be on my 30th birthday?

ANSWER.....

TURN OVER

16 What fraction of this square is shaded in?



ANSWER.....

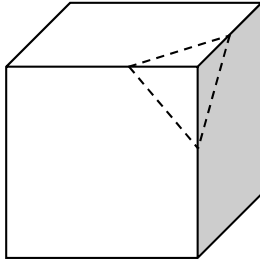
17 What is $6 \div 0.3$?

ANSWER.....

18 Give every prime number that goes exactly into both 12 and 18.

ANSWER.....

- 19 A cube has 8 vertices (corners), 6 faces and 12 edges.
Tejan cuts a corner off by sawing through the dotted lines.
How many vertices, faces and edges does the small piece he cut off have?



VERTICES.....

FACES.....

EDGES.....

How many vertices, faces and edges does the big piece left have?

VERTICES.....

FACES.....

EDGES.....

-
- 20 Dan is colouring in lined paper to make stripes across the page.
He colours first the 12th line red and then every **alternate** line up to and including the 18th line.

How many lines did he colour red?

ANSWER.....

TURN OVER

21 Armand is buying grass seed for his garden.

The lawn he wishes to make is this shape.

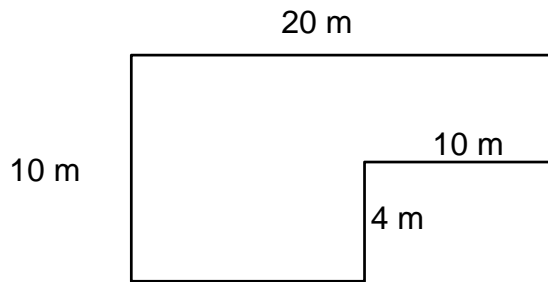


DIAGRAM NOT TO SCALE

Grass seed is sold by the bag. Each bag costs £10 and covers 3 m².

How much will it cost him?

ANSWER.....

22 Rosie's plant doubles its height every day.

It is 4 cm tall on Monday. On what day does it become taller than two metres?

ANSWER.....

- 23 Kitty's favourite Saturday night TV programme, *The Y Multiple*, was due to begin at 8:50 pm and it lasts $2\frac{1}{4}$ hours.
Last Saturday it started 13 minutes late.
What time did it finish?

ANSWER.....

- 24 Ella noticed that the 5th October 2015 could be written 5 -10 -15, with all numbers being a multiple of 5.
When is the next date **from today (23rd January 2016)** which when written in this form also has all the numbers being a multiple of 5?

ANSWER.....

- 25 Jonathan thinks of a whole number, multiplies it by itself and adds 9. He says that the answer is 47.
Daisy thinks Jonathan has made a mistake. Do you agree? Explain your reasoning.

ANSWER.....

REASON.....

.....

.....

TURN OVER

- 26** In a Latin test, Suril got 6 times as many marks as Krishan.
Ashwini has twice as many as Krishan.
Ashwini got 30 marks. How many marks did Suril get?

ANSWER.....

- 27** Find the 30th term of this sequence.
6, 10, 14, 18,.....

ANSWER.....

- 28** Krishani draws a rectangle with area 12 cm^2 and its sides are whole number lengths. Its perimeter is 14cm. How long is the **longest** side?

ANSWER.....cm

- 29** Morosé's team have lost 3 times as many matches as they have won.
They have not drawn any matches.
They have played 24 matches.
How many have they won?

ANSWER

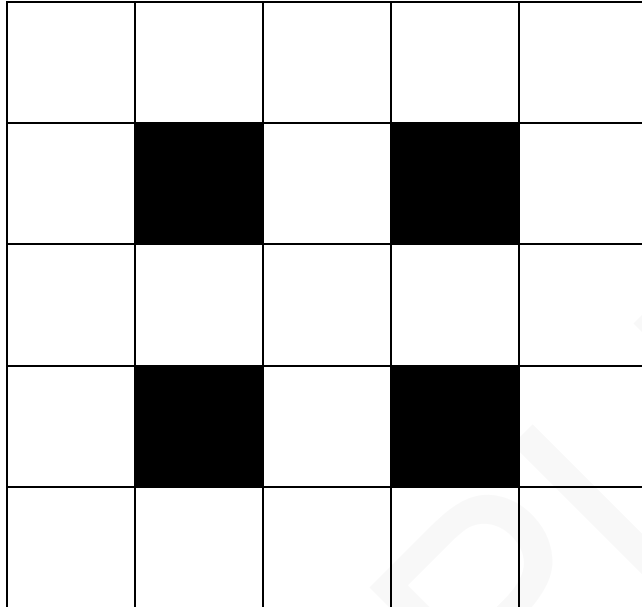
- 30** 4 oranges and 7 apples weigh 51 ounces
7 oranges and 4 apples weigh 48 ounces

What do 1 orange and 1 apple weigh?

ANSWER.....ounces

TURN OVER

- 31** This 5 by 5 square is made up of a row of white squares, then a row of white and black squares, then a row of white squares and so on.
There are 4 black squares.
How many black squares would there be in a 7 by 7 square coloured in the same way?



ANSWER.....

- 32 Isaac cycles for 20 minutes at 18 km/hr and for 10 minutes at 6 km/hr.
How far has he cycled and what is his average speed?

Distance.....km

Average speed.....km/hr

- 33 The triangle numbers are 1, 3, 6, 10, 15,...

They are formed like this:

1

$$1+2 = \mathbf{3}$$

$$1+2+3 = \mathbf{6}$$

$$1+2+3+4 = \mathbf{10}$$

$$1+2+3+4+5 = \mathbf{15}$$

- (a) What are the next two triangle numbers?

ANSWER.....and.....

- (b) The 200th triangle number is 10100. What is the 201st triangle number?

ANSWER.....

TURN OVER

- 34** Theo has a parallelogram and with one straight cut makes two pieces which he puts together to make a rectangle.

Show a cut he could make to do this on the diagram. In the space below show how the two pieces can then fit together to make a rectangle.



-
- 35** It takes 4 builders 10 hours to build a wall.

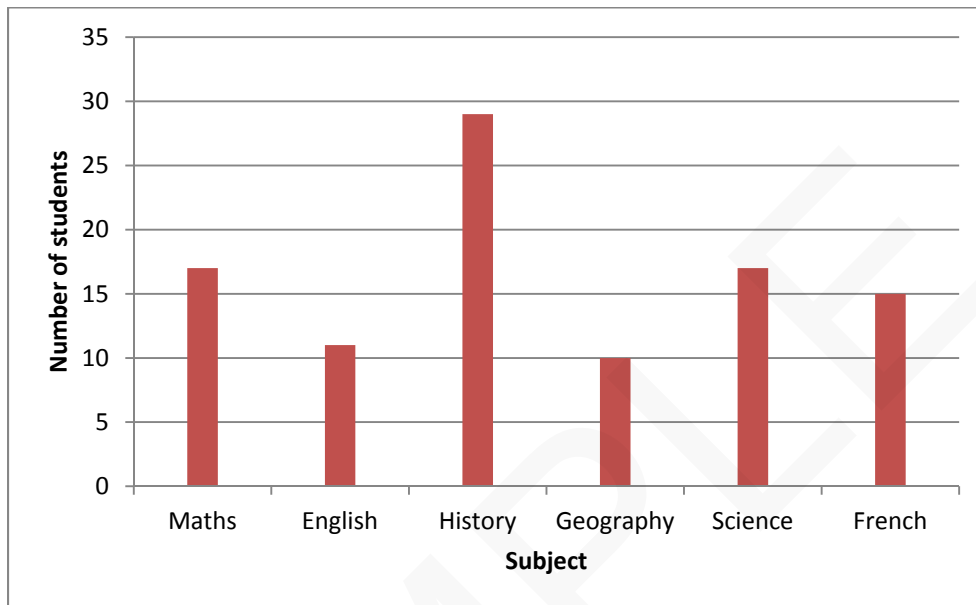
How many hours would it have taken 5 builders to build the same wall?

ANSWER.....hours

36. This bar chart shows the results of a survey of students asked for their favourite subject.

Alex says "Most people prefer History"

Do you agree? Explain your answer.



ANSWER.....
.....
.....
.....
.....

37 What is $\frac{1}{4}$ of 0.02?

ANSWER.....

TURN OVER

- 38** Chrystine's candle is 42cm tall and burns at a rate of 3cm every 30 minutes
Kieran's candle is 30 cm tall and burns at a rate of 2cm every 40 minutes.
They both light their candles at the same time.

How much longer does Kieran's candle take to burn completely down than
Chrystine's candle?

ANSWER.....

After how many minutes were the candles the same height?

ANSWER.....

YOU HAVE NOW COMPLETED THE EXAMINATION.

IF YOU HAVE TIME GO BACK AND CHECK YOUR ANSWERS.



FOREST SCHOOL

ENGLISH ENTRANCE/SCHOLARSHIP EXAMINATION

Section A: Reading

PASSAGE

Reading time: 10 minutes

Instructions to Candidates

- You have **10 minutes** to read the passage.
- You may not start answering the questions during this time.
- You may write notes on the passage if you want to.
- Once the reading time is over, you have **35 minutes** to complete the questions in the spaces provided.

Section A: Reading

The streets should be full. Front doors should be opening and closing. But there is no one. No cars, no trains, no people.	1
And this street, now that he can see more of it as his eyes and mind begin to clear a little more, even the geography of it looks strange. These houses are crammed together, all stuck in a line, with no garages or big front yards and only the narrowest of alleys between every fourth or fifth house. Nothing like his own street back home. In fact, this doesn't look like an American street at all. It looks almost – It looks almost <i>English</i> .	5
* * *	
The word clangs around his head. It feels important, like it's desperately trying to latch on to something, but his mind is so foggy, so shocked and confused, it only heightens his anxiety. It's a word that's wrong. That's <i>very</i> wrong.	10
He wavers a little and has to catch his balance on one of the sturdier- looking bushes. He feels a strong urge to go inside, to find something to cover himself with, and this house, this house – He frowns at it. What is it about this house?	15
Surprising himself, without even feeling as if he's decided to, he takes an unsteady step towards it, nearly falling. He still struggles to articulate his thoughts. He cannot say why he's walking towards the house, why it might be anything other than an instinct to get inside, to get out of this weird deserted world, but he's also aware that all of this, whatever it is, feels so much like a dream that only dream logic can possibly apply. He doesn't know why, but the house draws him. So he goes.	20 25
He reaches the front steps, steps over a crack running along the lowest one, and stops before the door. He waits there a moment, not quite knowing what to do next, not quite sure how it will open, or what he will do if it's locked, but he reaches for it- It swings open at his lightest touch. There are no lights on inside, and no sound. He looks around again. There's no drone of machinery or engines from anywhere, but he notices for the first time that there's no buzz of insects either, no call of birds, not even any wind through the foliage. Nothing but the sound of his own breathing. He just stands there for a moment. He feels hideously unwell, and so weak, so <i>tired</i> , he could almost lay down on this doorstep right here and sleep forever, just forever, and never wake up –	30 35 40

He steps inside the house instead. Hands on either wall to keep himself steady, he moves slowly forward, every second thinking he's going to be stopped, that he's going to hear a voice demanding to know what he's doing trespassing in a strange house. As he stumbles into the shadows, though, his eyes not adjusting to the change in light as fast as they should, he can feel dust under his feet so thick it seems inconceivable that anyone has been here in a long, long time. 45

It gets darker the further in he goes, and this seems wrong somehow, the blast of the sun through the open door not illuminating anything, just making the shadows heavier and more threatening to his bleary eyes. He fumbles on, seeing less and less, reaching the bottom of the stairs but turning from them, still hearing nothing, no sounds of habitation, no sound of anything at all except himself. 50 55

Alone.

He pauses before the doorway to the living-room, feeling a fresh thrust of fear. Anything could be there in the darkness, anything could be silently waiting for him, but he forces himself to look in, letting his eyes get used to the light. 60

When they do, he sees.

Caught in a few beams of dusty sunlight from the closed blinds at the front, he sees a simple, plain living-room, merging into an open dining area on his right, leading to a doorway through to the kitchen at the back of the house. 65

There is furniture here, like any normal room, except it's all covered in dust so thick it's like an extra cloth draped over everything. The boy, exhausted still, tries to make the shapes match up to words in his head.

His eyes adjust to the light more, the room becoming more of itself, taking shape, revealing details – 70

Revealing the horse screaming from above the mantelpiece.

A crazed eye, a tongue like a spike, trapped inside a burning world, looking at him from behind a picture frame.

Looking right at him.

The boy cries out at the sight of it because all at once he knows, *knows* beyond a shadow of a doubt, the realization coming like a tidal wave. 75

He knows where he is.

80



FOREST SCHOOL

ENGLISH ENTRANCE/SCHOLARSHIP EXAMINATION

Section A: Reading

ANSWER BOOKLET

35 minutes

Name	
Candidate number	

Instructions to Candidates

- Write your name and candidate number clearly on the front of this booklet.
- Once the reading time is over, you have **35 minutes** to complete the questions in the spaces provided.
- You should answer all the questions in this section.

Mark out of 30: _____

Marker: _____

1. **Re-read lines 1-9.** Write down **two clues** that tell the boy that the street is English (and not American). (2 marks) Marks

Clue One:

Clue Two:

1. ____

2. In **line 10** the narrator says that “the word clangs in his head”.

(a) What “word” is the narrator writing about? (1 mark)

2a. ____

(b) What does the word “clangs” tell the reader about the effect of this word on the boy’s mind? (2 marks)

2b. ____

3. In **line 15**, the narrator writes that, “He wavers a little”. What does the word **wavers** mean **in this sentence**? (1 mark)

3. ____

4. In **lines 21-22**, the narrator says that, “he still struggles to articulate his thoughts”. In your own words, explain what this means. (1 mark)

4. ____

(c) Why is it significant that “there’s no buzz of insects either, no call of birds, not even any wind through the foliage”? (2 marks)

6c. ____

7. Re-read lines 42-55.

(a) In **line 48** the narrator says that “**it seems inconceivable** that anyone has been here in a long, long time”. What does **it seems inconceivable** mean? (2 marks)

7a. ____

(b) How does the boy move through the house? You can use words from the text to support your answer? (2 marks)

7b. ____

(c) In your own words, explain what is unusual about the “blast of the sun” that comes through the open door. (1 mark)

7c. ____

10. Re-read the final part of the story lines 75-77:

The boy cries out at the sight of it because all at once he knows, *knows* beyond a shadow of a doubt, the realization coming like a tidal wave.

He knows where he is.

(a) What does the word realization mean? (1 mark)

10a. ___

(b) Write down the simile that the writer uses in this section. (1 mark)

10b. ___

(c) How does the narrator get across the certainty of the narrator? (2 marks)

10c. ___

End of questions



ENGLISH ENTRANCE/SCHOLARSHIP EXAMINATION

Section B: Writing

30 minutes

Name	
Candidate number	

Instructions to Candidates

- Write your name and candidate number clearly on the front of this booklet.
- Choose **ONE** question and write your response in the space provided.
- You have **30 minutes** for this section.

Mark out of 30: _____

Marker: _____

Section B – Writing
Marks Available: 30

You must answer the question set. You should not write out an answer from memory. Answers which are written from memory often do not get very high marks.

CHOOSE ONE OF THE FOLLOWING QUESTIONS:

Either

1. Imagine a world where no one has owned or used a mobile phone for twenty years. Then one day your friend comes round to your house and shows you an old mobile phone they have found in an attic. And, amazingly, it seems to work. What happens?

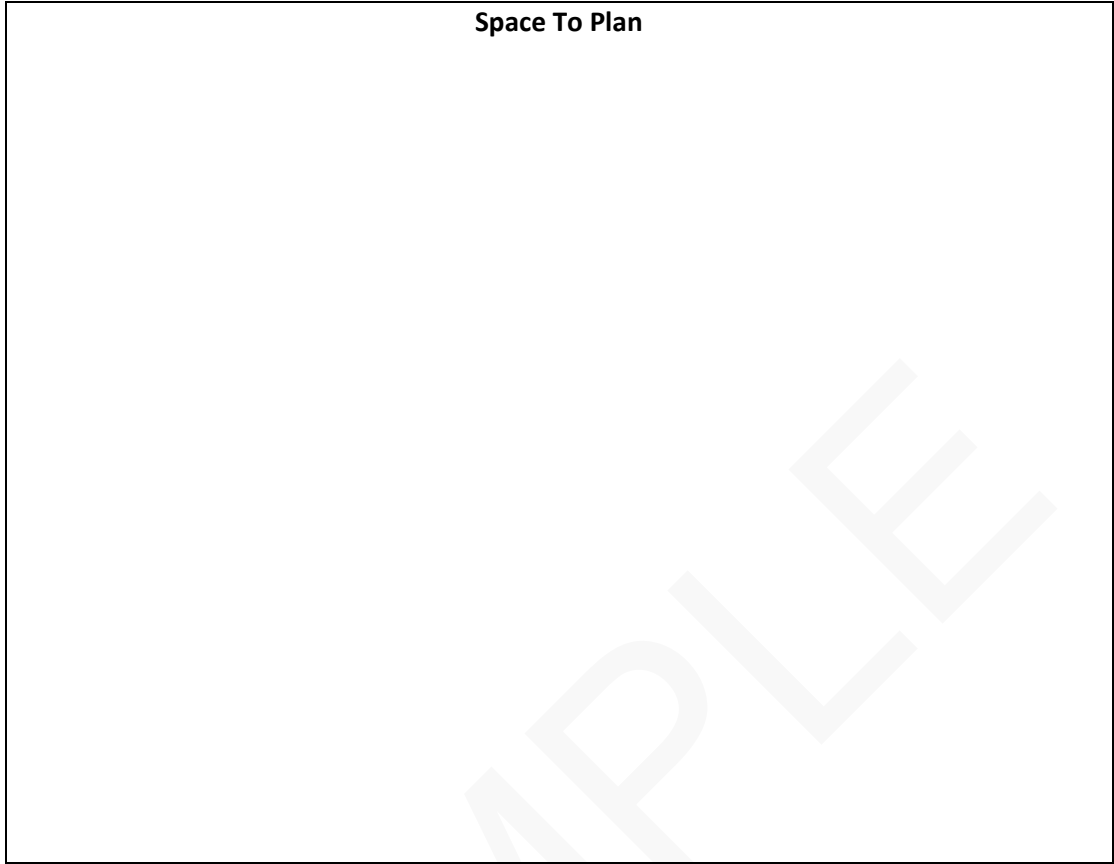
OR

2. Look carefully at the picture below:



Write a story based closely on what you can see in the painting.

Space To Plan

A large, empty rectangular box with a thin black border, intended for planning or drawing. The text "Space To Plan" is centered at the top of this box.A series of ten horizontal lines spaced evenly down the page, providing a space for writing or notes.