FOREST

SCHOOL

11+

ENTRANCE AND SCHOLARSHIP SAMPLE PAPERS

Sample Paper 2

FOREST SCHOOL
ENTRANCE EXAMINATION
MATHEMATICS

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

NAME…………………………………………………………………………………………….

CANDIDATE NUMBER…………………………………………

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1   Work out   78 + 916

ANSWER……………………………………

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2   Work out   567 - 89

ANSWER……………………………………

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3   Work out   246 x 8

ANSWER……………………………………

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4   Work out   234567 ÷ 9

ANSWER……………………………………

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5   How many hours are there in 2 weeks?

ANSWER……………………………………

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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..........……………

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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 costs £25.

Which size is the best value for money?

Justify your answer carefully.

ANSWER…………………………………

REASON...

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....

....

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

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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?
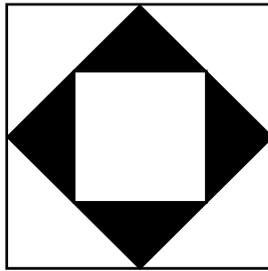
ANSWER...

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

ANSWER…………………………………

16   What fraction of this square is shaded in?

ANSWER…………………………………

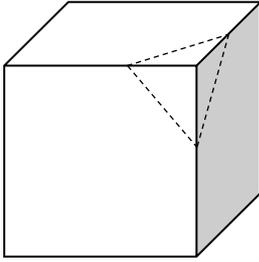**17**   What is $6 \div 0.3$?

ANSWER……………………………………

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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..

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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.
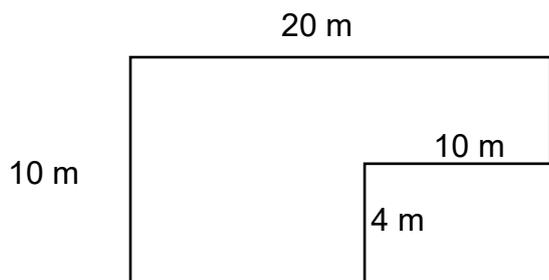
How many lines did he colour red?

ANSWER…………………………….

21 Armand is buying grass seed for his garden.

The lawn he wishes to make is this shape.

20 m

10 m

10 m

4 m   **DIAGRAM NOT TO SCALE**

Grass seed is sold by the bag. Each bag costs £10 and covers 3 m^2.

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 ¼ hours.
Last Saturday it started 13 minutes late.
What time did it finish?

ANSWER…………………………………

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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…………………………………

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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..

....

....

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 …………………………..
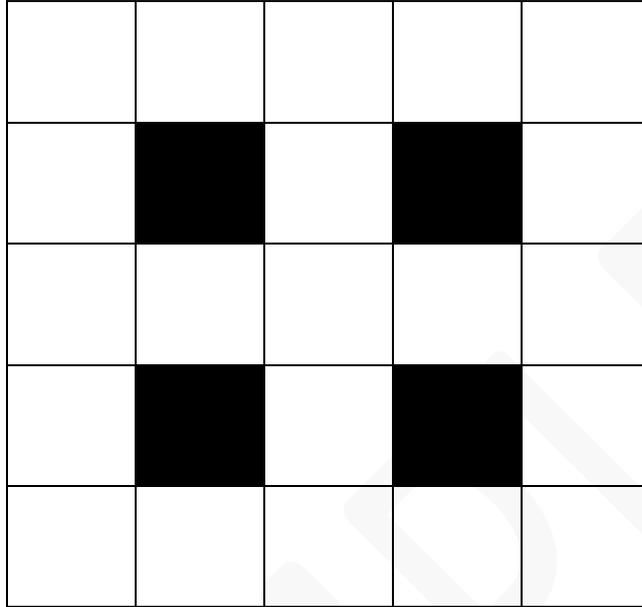
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30   4 oranges and 7 apples weigh 51 ounces
7 oranges and 4 apples weigh 48 ounces

What do 1 orange and 1 apple weigh?

ANSWER………………………………….ounces

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

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33   The triangle numbers are 1, 3, 6, 10, 15,…

They are formed like this:

1
1+2 = **3**
1+2+3 = **6**
1+2+3+4 = **10**
1+2+3+4+5 = **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………………………………

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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?

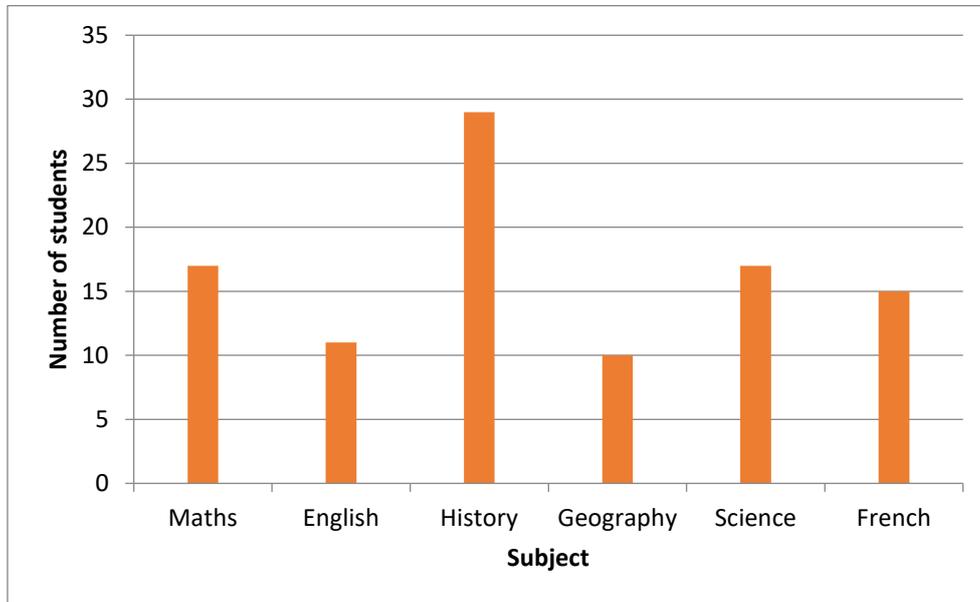ANSWER.......................................……hours

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 $\dfrac{1}{4}$ of 0.02?

ANSWER..

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

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

ANSWER...

(b) 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

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FOREST
SCHOOL

ENGLISH ENTRANCE/SCHOLARSHIP EXAMINATION

Section A: Reading

ANSWER BOOKLET
25 minutes

Name	
Candidate number	

Instructions to Candidates
- Write your name and candidate number clearly on the front of this booklet.
- You have **10 minutes** to read the passage.
- Once the reading time is over, you have **25 minutes** to complete the questions in the spaces provided.
- You should answer all the questions in this section.

Mark out of 20: _____

This story is set in ancient Rome. Threptus, a beggar boy, has gone out to seek his fortune.

Although it was only an hour after dawn, the forum[1] was already crowded. Threptus jumped up onto the base of a marble statue of a man on horseback, and hooked his elbow around one of the horse's painted legs. From this vantage point he could scan the forum for danger, which usually came in the form of an older boy named Naso. But Threptus could not see Naso's red hair anywhere.   5

His nostrils flared at the scent of meat from the morning sacrifices cooking on charcoal braziers. He could also smell incense from the lofty temple of Jupiter, Juno and Minerva over to his left. He could hear the jingle of a tambourine from within the temple of Rome and Augustus on his right, probably a dedication. The bankers and money-changers had set up their tables in the shade of the colonnade and were   10 already doing brisk business. He could hear the clink of coins and the deep bark of one of their watchdogs. A steady stream of people were making their way to the basilica: today was one of the days when cases could be heard.

Threptus nodded with satisfaction: it was business as usual in the forum of Ostia. He jumped down from the statue base and made his way to the notice board.   15

Threptus couldn't read, but he could eavesdrop. Most Romans read out loud, so he could just cock an ear and listen as they muttered their way through the various announcements of news: imperial edicts, court cases, births and deaths, lost and found.

Sometimes people even drew pictures of what they were looking for. Today, for   20 example, someone had drawn a kind of eagle, or perhaps a vulture. This was strange. Vultures were not common in Ostia[2]. In fact, Threptus had never seen a real vulture, only a fresco of one in the Temple of Isis. There was writing next to the picture on the notice board. Threptus didn't know letters but he did know the numbers one through ten. And he knew the sign for a sestertius: two standing up lines connected by a short   25 flat line next to a snake-shaped squiggle: HS. In front of the sign for sertertius were the crossed leaning lines that meant ten. So whoever found the vulture would get ten sesterces.

That was a lot of money.

Threptus held up both hands – fingers spread – and examined them. Ten   30 sesterces was more money than he had ever had in his life. It must be a very valuable vulture.

He was trying to think where a vulture might hide in Ostia, when the sound of children chanting caught his attention. It came from one of the nearby colonnades, the one near the office of the lamplighters' guild. This was the forum school.   35

A few steps took him to the colonnade. The boys and their teacher met in a shady walkway between some columns and a blank wall. The school was hidden from view by three rush screens propped up between the columns. In this way, the many distractions of the forum were blocked. Threptus padded forward on his bare feet and slowly brought his face close to one of the screens, close enough to peep through a   40 crack between the reeds.

Ten boys, aged four to eleven, sat on stools with their backs to the smooth wall. They all had large wax tablets on their knees. Three older men stood nearby. Threptus knew they were paedagogi. Their job was to accompany a boy to school and make sure no harm came to him. Only prosperous families could afford such a   45 slave. Most boys had to do without.

Threptus could hear the teacher's raspy voice, but he couldn't see him, so he moved to the screen at the end of the colonnade. Now he could see him: a short, bald man with a beard like a billy goat. His name was Lucius Furius Caper, but everyone called him by his nickname: Magister Flagellum. Master Whip. He was holding a whip   50

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[1] *forum* - the main square and meeting place in a Roman town
[2] *Ostia* - the town in Italy where the story is set

at the moment. It was made of three flexible reeds bound together at one end to make a handle.

Magister Flagellum stopped the boys from chanting with an upraised hand.

"Porcius?" said Magister Flagellum in his raspy voice. "Will you continue?"   55

One of the older boys nodded, and began to mumble something.

"Louder!" commanded Magister Flagellum. "We can't hear you. When you are pleading a case you will need to enunciate."

But Porcius's problem was not that his voice was too soft. It was that he hadn't memorised the passage.   60

"What did I tell you about not doing the homework?" said the teacher, rattling the whip so that the three reeds rattled against each other.

"I'm sorry, sir," said Porcius. "But one of our slaves was ill and I had to help Father this morning."

"No excuses!" barked Magister Flagellum. "As the eldest of us, you must set an example."

1. **Reread lines 1-5.** Give one quotation to show what Threptus is afraid of. **(1 mark)**

_____

_____

2. **Reread lines 6-13.** Give three examples of things Threptus can see or smell in the forum. **(3 marks)**

(1)

_____

_____

(2)

_____

_____

(3)

_____

_____

3. **Reread lines 30-47.** Choose three quotations which tell you something about the forum school, and explain what they show you about the school.
(6 marks)

(1)

_____

_____

(2)

_____

_____

(3)

_____

_____

_____

4. Reread lines 43-48.
   a) What is "Magister Flagellum"'s real name? **(1 mark)**

   _____

   _____

   b) Identify the simile in this paragraph. **(1 mark)**

   _____

   _____

   a) What impression does it give us of the schoolmaster? (**1 mark)**

   _____

   _____

5. Reread these sentences:
   "Louder!" commanded Magister Flagellum. "We can't hear you. When you are pleading a case you will need to enunciate."
   What does Magister Flagellum mean by this? **(2 marks)**

   _____

   _____

   _____

   _____

   _____

6. What impressions does the author give you of Threptus's character in this passage? You should use quotations in your answer. **(5 marks)**

   _____

   _____

   _____

   _____

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ENGLISH ENTRANCE/SCHOLARSHIP EXAMINATION

Section B: Writing

40 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 **40 minutes** for this section.

Mark out of 40: _____

Section B – Writing
Marks Available: 40

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. You should include details from your reading of the passage to inform your writing.

Choose <u>one</u> of the following questions:

     EITHER

(1) Write the next chapter of the story, exploring what happens to Threptus.

     OR

(2) Imagine you are Porcius. Write the scene in the school from your point of view.

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