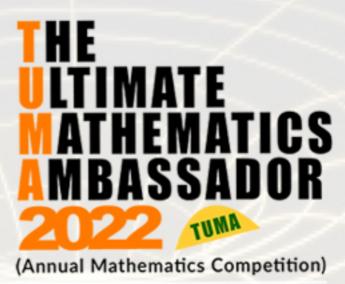


# THE AMBASSADORS SCHOOLS, OTA

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STAGE 2 - SPEED TEST

79ME ALLOWED: 10 minutes

#### INSTRUCTIONS

- 1. This Test consists of 20 questions.
- 2. This Test is worth 20 marks.
- 3. Each question is worth 1 mark.
- Please write your final answer only in the space provided after each question.
- 5. Speed is of great importance in this Test.

### **SECTION A**

**INSTRUCTION:** Answer all questions in this section. Write the correct answer in the space provided.

1. Express 36% in its lowest term	ms
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Answer: \_\_\_\_\_

2. Find the volume, in  $cm^3$  of a cube of length 1cm.

*Answer:* \_\_\_\_*cm*<sup>3</sup>

3. What is the circumference of a circle if the one-tenth of the circumference is 56cm?

*Answer:* \_\_\_\_\_*cm* 

4. Shade got 42 out of 60 mathematics questions. What percentage of question did she miss?

Answer:\_\_\_\_\_%

5. Simplify  $\frac{2424}{12}$ 

Answer: \_\_\_\_\_

6. Simplify the "Roman Numeral Expression":  $\frac{XXXVI}{III}$ , giving your answer in tally form

Answer: \_\_\_\_\_

7. Solve 3x + x + 5 = 3x + 7

Answer: \_\_\_\_\_

8. A man is 4 times as old as his son. Find the age of the man if their ages differ by 30 years.

Answer: \_\_\_\_\_ years

## THE ULTIMATE MATHEMATICS AMBASSADOR

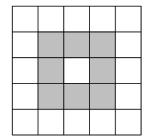
9.	How many lines of symmetry does a square have?		
	Answer:		
10.	In a pupil's race, Thomas is the 4 <sup>th</sup> from the front and 19 <sup>th</sup> from the real How many pupils are running the race?		
	Answer:		
11.	Arrange these four digits, 7 6 5 4, to make the number closest/neares to 5 000.		
	Answer:		
12.	Simplify: $\frac{1\times2\times3\times4\times5}{1+2+3+4+5}$		
	Answer:		
13.	A palindrome is a whole number that reads the same forward and backwards (e.g. 1221). How many palindromes are there between 100 and 200?		
	Answer:		
14.	What is the smallest 2-digit number that can be formed by the addition of 2 or more square numbers (perfect squares)?		
	Answer:		
15.	The product of a certain number and $14.8$ is $1$ . What is the product of the number and $14.8^2$ ?		
	Answer:		
16.	Find the volume of a spherical bowl of radius 7cm.		
	Answer:cm		

#### THE ULTIMATE MATHEMATICS AMBASSADOR

17.	Afe sets his clock correctly at 9:00am. It loses 5 minutes every hour.
	What time will be shown on the clock when the actual time is 5:00pm?

Answer:	
Aliswei.	

18. In the square pattern below, the ratio of black square tiles to white square tiles is

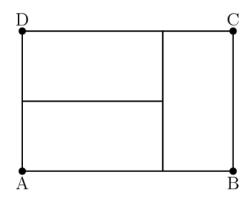


Answer:		

19. Mr Johnson boards a flight from Lagos to Abuja. Upon reaching  $\frac{1}{3}$  of the total distance, he fell asleep. When he finally woke up, the remaining distance to Abuja was  $\frac{1}{8}$  of the total distance. What fraction of the entire trip was Mr Johnson asleep?

Answer:	

20. Three identical rectangles are put together to form rectangle ABCD as shown in the figure below. Given that the length of the shorter side of each of the smaller rectangles is 5m, what is the area of rectangle ABCD?



*Answer:* \_\_\_\_\_*m*<sup>2</sup>