TOP EDUCATIONAL INSTITUTE

MATHEMATICS FORM 1 **MOIR** LAST TERM TUTOR: **NISHAN FERNANDO**

Name ……. Date …… Marks ……

1. The table shows the average annual rainfall, in mm, for each of five countries.

COUNTRY	**AVERAGE ANNUAL RAINFALL**
Sri Lanka	1712
United Kingdom	1220
Nigeria	1150
Colombia	3240
Egypt	18

a) Write the number 3240 in words

……

……

(1 Mark)

b) Write the number 1712 to nearest hundred

……

(1 Mark)

c) The average rainfall for for Sri Lanka is more than the average rainfall for Nigeria. How much more?

……

(1 Mark)

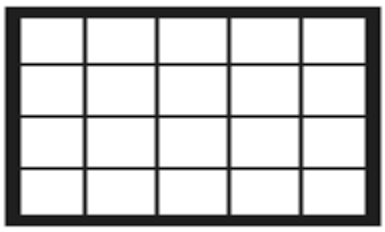
d) The average rainfall for for Samoa was 1660mm more than the average rainfall for United Kingdom. Work out the average rainfall for Samoa.

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(1 Mark)

2. Here is a rectangle made from squares.

a) Shade 0.6 of the rectangle (1 Mark)



b) Write down the value of the 4 in the number 12.345 …… (1 Mark)

c) Write $\frac{3}{8}$ as a decimal. ..... (1 Mark)

d) Arrange these decimal numbers in descending order. **1.2345, 12.345, 123.45, 0.12345**

..... (2 Marks)

3. Find

a) 7+2×(4-3) **b) (**16÷2+4) ÷ (3×4÷2) **c) (**10×3-20) +3(9÷3+2)

.....

.....

.....

.....

(2+3+4 Marks)

4. Write down the next two number in the sequence.

a) 5,10,17, 26…, …. b) -24, -18, -13…, … c) 720,120,24, 6, …., …

(2+2+2 Marks)

5. Find

a) $2\frac{2}{5} - \frac{6}{7} \div \frac{5}{14}$ b) $\frac{1}{6} \times (\frac{3}{2} - \frac{1}{2}) \div \frac{7}{12}$

(3+4 Marks)

6. Arrange in ascending order.

a) $\frac{2}{5}, \frac{2}{3}, \frac{4}{15}, \frac{3}{10}$ b) $\frac{1}{4}$, 0.75, $\frac{1}{8}$, 0.5

(3+3 Marks)

7. Find the total cost of Rs. 5.60, Rs 5.60, Rs.10, Rs.2.92 (2 Marks)

8.How many pieces of ribbon of length 0.3m can be cut form a piece 7.5m long? (2 Marks)

9. Give $\frac{2}{11}$ as a recurring decimal. (2Marks)

10. Express as fractions in their lowest terms. (2+2 Marks)

i. 30% ii. $2\frac{1}{2}\%$

11. Express percentages as decimals. (2+2 Marks)

i. 69% ii. $18\frac{1}{2}\%$

12. Express fractions as percentages. (2+2 Marks)

i. $\frac{3}{8}$ ii. $\frac{99}{100}$

13. Express decimals as percentages (2+2 Marks)

i. 0.61 ii. 0.035

14. Express the first quantity as a percentage of the second (2+2 Marks)

i. 6 mm, 5 cm ii. £ 5.40 , 81p

15. Find the value of (2+2 Marks)

i. 17% 0f 300 ml vii. $2\frac{1}{3}\%$ of 90 g

16. Increase 400 by 27% (2+2 Marks)

17. A shop keeper buys 80articals for $200 and sells them for $3.50 each. What is the percentage profit? (3 Marks)

18. Here are 06 numbers. 49, π, 6,27,21,31. write down a (5 Marks)

prime number .....
irrational number .....
square number .....

triangular number ……..
cube number ……..

19. Write 600 as a product of powers of its prime factors. Show your working. (3 Marks)

20. Find LCM of 1.) 10,30.210 2.) 7,13,182 (3+3 Marks)

21. Find HCF of 1.) 120,40,60 2.)10.18,20,36 (2+2 Marks)

22. Solve the following equations

1) x + 10 = 25 2) 3x = 99 3) x – 8 = 13 4) 8x = 3x+15

(2+2+2+3 Marks)

23.Simpify

1) x+x+x+x 2) 4a+8b-2a+5b 3) 4x ×11y 4) 7(x-3)

(2+2+2+2 Marks)

24. Calculate

a) -5+3-2 b) 4 × (-2) c) -12 ÷ -4 d) $\sqrt{81}$ e) 5^3

(2+2+2+2+2 Marks)

25. Here are the number of goals scored by Ronaldo in each of the first 9 football matches.

4 7 4 6 6 1 3 6 7

Find

a) mode b) median c) range d) mean number of goals

(1+2+2+3 Marks)