**OPENER MATHS FORM 2 YEAR 2015**

**GATITU MIXED SEC SCHOOL**

1. Express the following numbers in terms of their prime factors (4marks)

a)300

b)196

2.Which of the following numbers are divisible by both 10 and 11? (3marks)

a)3520,4670,4730,6930,7470

b)2530,5170,60750,10230,10780

3.Find the G.C.D of

(i)70,210,154

4.Find the L.C.M of

(i)10,30,165

5.Evaluate each of the following

(i)(18-24)+30

(ii) 96-6+7x15-14x5

6.A man was born in 1966 .His father was born in 1928 and the mother three years later .If the man’s daughter was born in 1992 and the son 5 years earlier ,find the difference between the age of the man’s mother and that of his son (3marks)

7.Evaluate each of the following (2marks)

a. 8 1/9 - 2 ¾ + 9/4

b. 2 7/12 + 1 2/3 - 9 3/5

8.Express each of the following as a fraction

a)3.256

b)1.523

9.Find the square root of each of the following using the factor method (2marks)

a)2401

b)6561

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10.Factorise

a)3ab+2b+3ca+2c

b)9b+bc-a-c

11.The enrollment in Wengi Primary School was 1283 pupils last year .The enrolment this year is 109% of last year. What is this year’s enrolment? (3marks)

12.The length of an arc of a circle 62.8cm .Find the radius of the circle if the arc subtends an angle of 144 at the centre

13.Solve each of the following equations by substitution method

5x + 6y =22

2x +10y =10