

**MAKUENI BOYS**

**F1 MATHS AUGUST ASSIGNMENT 2020**

- 1) What is a prime number? Give 2 examples of prime numbers. (2mks)
- 2) By stating the divisibility test 8, Show whether the number 678144 is divisible by 8 (4mks)
- 3) convert the following recurring decimals into fractions
  - i.  $0.3454545\dots\dots\dots$  (3mks)
  - ii.  $3.142514251425\dots\dots$  (3mks)
4. Evaluate the following and leave your answer in standard form  
 $3.5673+657.09093-4123.00654$  (4mks)
5. Write the place value chart for the following numbers
  - i. 12345678934 (3mks)
  - ii. 0.0034521389 (3mks)
6. Write the following numbers in words (4mks)
  - i. 5421889
  - ii. 100010001
7. Evaluate the following using a number line (4mks)
  - i.  $-4+-5+3$
  - ii.  $2-4+-5$
8. Write the following decimals in ascending order (3mks)  
1.275, 1.2, 1.27, 1.22
9. Arrange the following fractions in descending order (6mks)
  - i).  $\frac{2}{3}, \frac{3}{7}, \frac{8}{11}, \frac{3}{21}$

ii).  $\frac{5}{9}, \frac{3}{7}, \frac{2}{13}, \frac{7}{21}$

10. Evaluate (4mks)

$$\frac{-3+3(4\mp 6)\div 5}{10\div 0.5(0.4-0.2)}$$

11. Evaluate the following (3mks)

$$\frac{1}{5} + i.i$$

12. Write the following numbers in standard form (4mks)

i. 0.0004560032

ii. 12300000000

13. Write the following numbers as indicated in the brackets (4mks)

i. 145.9995 ( to two decimal places)

ii. 0.0000021346(to three decimal places)

14. A Matatu has a capacity of 18 passengers, it can however carry extra 3 passengers but with a sh. 50 fine. The fare from town A to town B is sh. 100. The conductor and the driver are paid sh. 200 each per round trip. The car consumes 84liters of petrol per every 7km. if a liter of petrol costs 50 shillings per liter. Calculate:

a) the total amount of money received if the Matatu does not overload (3mks)

b) The amount of money received when the Matatu overloads (3mks)