

**PRESIDENT'S OFFICE**  
**REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT**  
**GEITA ADVENTIST SECONDARY SCHOOL**  
**FORM THREE HOLLIDAY PACKAGE 27<sup>TH</sup> APRIL 2020**  
**BASIC MATHEMATICS**

---

**INSTRUCTIONS:**

***Answer al questions by showing you resolutions, Do not use notes book to do this work, use any other book.***

1. A mother's age is four times the age of her daughter. If the sum of their ages is 50 years find the age of the mother.
2. If  $y^2$  varies directly proportional to  $y_1$  and inversely to  $y+d$  and if  $y=2$ ,  $d=4$ , for  $x=1$  then calculate  $y$  when  $x=2$  and  $d=1$
3. Marissa was given 20,000 shillings by her father. She spent 48% of it to buy shoes. How much money remained?
4. (a) Find the equation of the line through the points (4,6) and (-2,3)  
—
5. If  $f(x) = 8x^2 + 5$  find  $f(-2)$ ,  $f^{-1}(10)$
6. By completing the square solve the quadratic:  $(-x+2)(3-2x)=0$
7. (a). Over a period the midday temperatures was measured to the nearest degree the results are below ( $N=60$ )

Temperature	15-19	20-24	25-29	30-34	35-39	40-44	
Frequency	5	3	15	10	9	m	

- a) Find mean
- b) Calculate the mean temperature, take assumed mean as 27
- c) State the modal class and hence determine the mode

d) State the median class and hence find the median

8. If  $\log_4 x = y$ , show that  $\log_2 = 2y$ . Hence find the value for  $x$  given that  $\log_2 x + \log_4 = 9$

9.

(a) Why do we need to keep business records?

(b) KAWANARA started the business on 1<sup>st</sup> Jan 2000 with capital Tshs 5000000 in cash January

2 Purchased goods and paid in cash

..... 1,000,000/=

3 Bought goods for

cash..... 500,000/=

5 Paid wages in

cash..... 50,000/=

7 Sold goods in

cash..... 300,000/=

8 Bought goods in

cash..... 800,000/=

9 Received loan from

bank..... 70,000/=

12 Bought parking materials in

cash..... 20,000/=

28 Paid transport

charges..... 30,000/=

28 Drew cash for burial

Tshs..... 10,000/=

Enter the above transaction in cash account and prepare a trial balance