SCOBA
S.2 MATHEMATICS
END OFAPRIL TEST

1. Simplify $\left(\frac{3}{4}+2\frac{1}{2}\right)+\frac{1}{2}-\frac{1}{4}$

2. Okello aged 12 and Musisi aged 15, share shs. 54,000 in the ratio of their ages. How much does each get.

3. Find the equation of the straight line passing through the pointd (3,4) and (1,2).

4. Solve the following points of simultaneous equations.
   $2x-y=3$
   $6x-3y=9$

5. Factorise completely.
   x^2+5x-6.
6. Given the function $f(x)=\frac{1}{2}x+6a$. Find the value of a if $f(0)=1$. Hence find the value of $f(2)$.

7. Given that P = {the first six natural numbers}
   Q = {the first five odd numbers } Find n(PnQ).

   Use logarithms to evaluate. $\frac{46-32\times 8635}{57.82}$

8. In 12 days, Juliet collected the following number of eggs from her hens.
   22, 20, 23, 14, 16, 19, 17, 18, 21, 18, 20
   Find the mean number of eggs collected per day.

9. Solve $2x \geq 4x+10$ and represent the solution set on the numberline.

SECTION B

10. a) A business man bought 20 small radios at a total cost of shs. 200,000. He sold 10 of them at shs. 15,000 each and the rest at shs. 25,000 each.
    i) Find the total amount of each money he got after selling all the radios.
    ii) Find his profit
    iii) Calculate the percentage profit.

    b) Jane deposited sh. 6,000 in the bank for two years at a compound interest rate of 15% per annum. Calculate the amount of money she accumulates in the bank after the 2 years.

SUCCESS.