

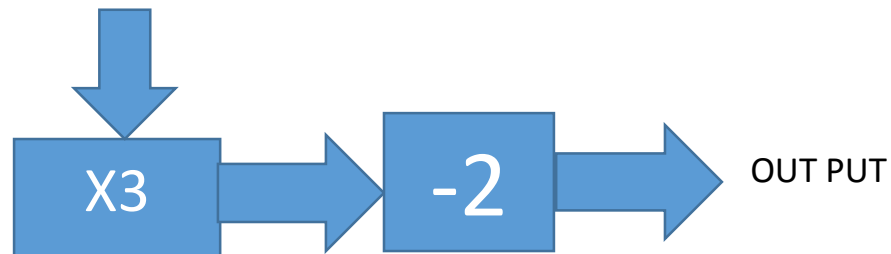
**S1 MATHEMATICS**  
**END OF TERM 11 ASSESSMENT**  
**TIME: 2HOURS.**

**INSTRUCTIONS**

- **Attempt all questions.**
- **Show your working clearly on the answer sheet provided.**
- **This paper is marked out of 40 scores.**

**SECTION A**

1. A school has 800 pupils, the head teacher decides to send a questioner to  $\frac{2}{5}$  of the pupils. How many pupils receive the questioner?  
(02 scores)
2. Plot the points (2,2), (4,3) and (8,5) on the same axis, Join the points to form a straight line. Name the points at which it cuts the: (i) x- axis  
(ii) y-axis  
(03 scores)
3. Using a pencil, a rule and a pair of compasses only. Construct an angle of  $75^\circ$   
(03 scores)
4. Use a number machine below to generate a sequence of the numbers 1,2,3 and 4



- (i) Find the 10<sup>th</sup> number of the sequence (03 scores)

5. Draw an abacus to illustrate this expression

$$4204_{\text{eight}}$$

(02scores)

6. Find the sum and product of the **L.C.M** and **G.C.F** of 12 and 20.

(03 scores)

### SECTION B

7. The price of a lap top increased by **9%** in the first month and then by **15%** in the second month before it stablished to a constant price. Finally, the laptop was valued at 1,203,360. Find the initial price. (06 scores)
8. Construct an equilateral triangle ABC of sides 7cm. Bisect **AB** and **BC** and let the bisectors intersect at **X**, with **X** as the as the Centre and radius **XA**. Draw a circle. (06 scores)
9. The table below shows student's marks in two mathematics tests. For each one, calculate the percentage difference say if it is an increase or a decrease. (06 scores)

	Student	First test	Second test
(a)	Marion	50	45
(b)	James	40	52
(c)	Christina	20	35
(d)	Sarah	60	50

10. Ajuma was in the Centre of the region of schools. The bells rang at intervals of 12 minutes, 15 minutes, 18 minutes and 21 minutes from 9:00am on his watch. What is the lowest possible time of the intervals?

(06 scores)

**END**