## **OUR LADY OF GOOD COUNSEL S.S.S**

## MATHEMATICS DEPARTMENT S.1 HOLIDAY WORK 2020

- 1. Convert the following numbers to base ten
- (i) 124<sub>five</sub>
- (ii) 3et<sub>twelve</sub>
- (iii) 145 six
- 2. Convert 513<sub>six</sub> to the following bases
- (i) Decimal
- (ii) Duo decimal
- (iii) five
- 3. Work out using an abacus
- (a)  $1513_{six} + 203s_{ix}$

- (b) 1465 twelve + 3556 twelve
- 4. Multiply the following
- (a) t01twelve X 9twelve
- (b) 444<sub>five</sub> X 13<sub>five</sub>
- 5. Divide the following
- (a) 220 five by 30 five
- (b)  $240_{six}$  by  $12_{six}$
- (c) 200 twelve by 20 twelve
- 6. Work out 135 six X 48 nine and give your answer in base seven
- 7. Solve for n if  $205_n = 77_{ten}$
- 8. Solve for x if  $104_x = 1002_{three}$

**END** 

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