## OU R LADY OF GOOD COUN SEL S.S.S

## MATHEMATICS DEPARTMENT

## S.1HOLIDAY W ORK 2020

1 Convert the following numbers to baseten
(i) $124_{\text {five }}$
(ii) 3et twelve
(iii) 145 six
2. Convert $513_{\text {six }}$ to the follow ing bases
(i) Decimal
(ii) Duo decimal
(iii) five
3. W ork out using an abacus
(a) $1513_{\text {six }}+2033_{i x}$
(b) $\mathbf{1 4 6 5}$ twelve +3556 twelve
4. M ultiply the following
(a) $\mathrm{t} 01_{\text {twelve }} \mathrm{X} 9_{\text {twelve }}$
(b) $444_{\text {five }} \times 13_{\text {five }}$
5. Divide the following
(a) 220 five by 30 five
(b) 240 six by 12 six
(c) 200 twelve by 20 twelve
6. W ork out $135_{\text {six }} \times 48$ nine and give your answer in base seven
7. Solve for $n$ if $205_{n}=77$ ten
8. Solve for $x$ if $104 x=1002_{\text {three }}$

END

