SANGAM SKM COLLEGE- NADI 2021
YEAR 11 APPLIED-MATHEMATICS
WORKSHEET 1 WEEK 2

Q1. An operation table defined by ✣ is given in the table below.

●	0	1	2	3	4
0	0	1	2	3	4
1	1	2	3	4	0
2	2	3	4	0	1
3	3	4	0	1	2
4	4	0	1	2	3

(i) Is the set closed? Explain.

(ii) Evaluate (3 ✣4) ✣2.

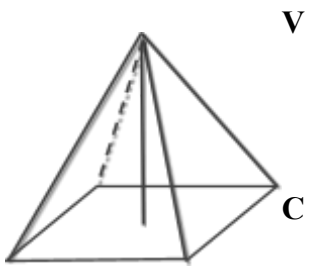
(iii) Give the inverse of 3

Q2. A company is selling DVD player for $1200. Alternatively, it could be bought by paying a 20% deposit and monthly installments of $125 for one year. If the second alternative is chosen:

(i) what will be the total cost.

(ii) how much extra will be paid by choosing to buy the DVD by this method.

Q3. A **square pyramid** is shown below.



The length of **DB** = 5 cm , **AB** = 5 cm and the perpendicular height **VE** = 15 cm.

Calculate the **volume** of this pyramid in cm^3