The Punjab School-DRC Class 8th Math- VacationEngaging Task

- 1. Define set with example?
- 2. What is the difference b/w whole number, and natural no?
- 3. Define proper and impropersubsets.
- 4. Define power set?
- 5. Write the De-Morgan's law.

a.

$$A = \{e, f, g\}$$

b.
$$B = \{-1\}$$

- 7. Write proper subset
 - a. D={0,1}
 - b. C={1,2,3}
- 8. Write the power set D={x,y,z}
- 9. What is Commutative law of union/ intersection?
- 10. What is Associative law of union / intersection?
- 11. Write Distributive law.
- 12. Show that AU(B C)=(AUB) (AUC)

A= {0}, B= {0,1}, C= {
13. U=N, A= and B=P
$$\phi$$

Verify $(A B)^{c} = A^{c}UB^{c}$

14.

$$C = \{x \mid xEN8 \le x \le 18\}$$

$$D = \left\{ y \mid yEN9 \le y \le 19 \right\}$$

Prove that CUD=DUC with Venn diagrams.

15.

$$A = \{x \mid xEZ8 \le x \le 25\}$$

$$B = \{y \mid yEN - 2\angle y\angle 6\}$$

Then find with Venn-diagram. $A \cap B = B \cap A$