PROPERTIES OF INTEGERS WITH RESPECT TO ADDITION

1. Fill the given blanks without actual additions.

   (i) $25 + 35 = 60$ then $35 + 25 =$ ....

   (ii) $105 + 307 = 412$ then $307 + 105 =$ ......

   (iii) $605 + 350 = 955$ then $350 + 605 =$ ....

   (iv) $(-105) + 70 = -35$ then $70 + (-105) =$ ....

2. Match the following

   (i) $45 + (-25) = (-25) + 45$ ( ) (A) Additive Identify

   (ii) $(-5) + 2025 = 2020$ ( ) (B) Additive Inverse

   (iii) $(6+7) + (-4) = 6+(7+(-4))$ ( ) (C) Asociative property under addition

   (iv) 3, –3 are called as to   ( ) (D) Closure property under addition

     each other

   (v) Zero (0)   ( ) (E) Commutative property under addition

                             (F) Multiplicative identity.

3. Find the following uing by using properties of addition.

   (i) $25 + 45 + 65$ (ii) $(-50)+60+(-70)$

   (iii) $607 + (-705) + (-402)$ (iv) $(-400) + 35 + (-25)$

4. Find the sum of 2020 and additive identity.

     which property that $25 + (-10) + 25$ represents ? give reasons.

5. Find (i) $(4000+5000) + 6000$ (ii) $4000 + (5000 + 6000)$ (iii) $(4000+6000) + 5000$

   What do you observe from the following sums what is the property followed here ?

6. What do you observe from the following sums what is the property followed here ?

7. Find (i) $309+0$ (ii) $(-39) + 0$ (iii) $0 + (-39)$ (iv) $5 + 0$

   Write the name of the property used here .....

8. Find the following (i) $6 + 1 =$ .... (ii) $1 + 6 =$ .... (iii) $(-35) + 1 =$ ....

   What do you observe (By adding '1' to any integer/number).