PROPERTIES OF INTEGERS WITH RESPECT TO MULTIPLICATIONS

1. Find the product by using into suitable property

   (i) $(69 \times 59) \times 20$[Hint : $(69 \times 59) \times 20 = 69 \times (59 \times 20)$]

   (ii) $(-4) \times (-9) \times (-10)$ (iii) $60 \times (-10) \times 2$ (iv) $39 \times 10 \times (-5)$

2. Match the following

   (i) $[5 \times (-6)] \times 10 = 5 \times [(-6) \times 10]$ ( ) (A) Commutative under multiplication

   (ii) $(-5) \times 7 = 7 \times (-5)$ ( ) (B) Multiplicative Identity

   (iii) $(-5) \times 1 = 1 \times (-5) = -5$ ( ) (C) Distributive property

   (iv) $5 \times (6 + (-4)) = 5 \times 6 + 5 \times (-4)$ ( ) (D) Multiplicative Identity property

   ( ) (E) Associative property under multiplication

3. Find the product of 2020 and its multiplicative identity.

4. Find the following.

   (i) $5 \times (-1)$ (ii) $(-1) \times 6$ (iii) $(-6) \times (-1)$ (iv) $(-1) \times (-10)$ (v) $a \times (-1)$

   (vi) $(-1) \times a$

   What do you observe ?

5. Find the following and write what do you observe from the result.

   (i) 39×0 (ii) $0 \times (-39)$ (iii) $(-3050) \times 0$ (iv) 2000×0

   (v) $0 \times (-29)$.

6. Write Five examples for commutative property of integers under multiplication.