Properties of Multiplication

1. **Fill in the blanks:-**

   A. The product of two negative integers is a _____integer.

   B. If the number of negative integers in a product is odd, then the product is ____integer.

   C. A rearrangement of three or more integers ____their product.

   D. Multiplicative inverse of a non-zero integer is the number ____.

   E. (–6) x (–8) = ____

   F. a x (b – c) = a x b –____x____

   G. The product of an ____and ____is the integer itself.

   H. If we multiply 6 negative integers and 3 positive integers, the sign of the product will be ____.

   I. If (–1) is multiplied twelve times the product will be _____.

   J. If x is the product of 3 negative integers and y is the product of 5 positive integers, then the product of a x b is a _____.

2. **Find the value of the following:-**

   A. (–6) × 0 × (–48) × 48

   B. (–80) × [10 – 5 – 43 + 98]

3. **Determine the integer whose product with –1 is:-**

   C. –30 _____ B. 26 _____

   D. 1 _____ D. 0 _____

4. **Find the following products by suitable rearrangement:-**

   A. 9 × (–55) × (–6) B. (–625) × 744 × (–4) × 4

   C. (–50) × 125 × (–6) × 11 D. –125 × 10 × 25 × –4

5. Verify and name the property used:-

A. $372 \times 462 - (372) \times (-38) = 372 \times (462 - (-38)]$

B. $(-25 \times 8) \times (-264) = -25 \times [8 \times (-264)]$

C. $(-145) \times 195 + (-145) \times 5$