



#### Exercise 1B

### Solution 01

**Answer :**

(i)  $16 \times 9 = 144$

(ii)  $18 \times (-6) = -(18 \times 6) = -108$

(iii)  $36 \times (-11) = -(36 \times 11) = -396$

(iv)  $(-28) \times 14 = -(28 \times 14) = -392$

(v)  $(-53) \times 18 = -(53 \times 18) = -954$

(vi)  $(-35) \times 0 = 0$

(vii)  $0 \times (-23) = 0$

(viii)  $(-16) \times (-12) = 192$

(ix)  $(-105) \times (-8) = 840$

(x)  $(-36) \times (-50) = 1800$

(xi)  $(-28) \times (-1) = 28$

(xii)  $25 \times (-11) = -(25 \times 11) = -275$

### Solution 02

**Answer :**

(i)  $3 \times 4 \times (-5) = (12) \times (-5) = -60$

(ii)  $2 \times (-5) \times (-6) = (-10) \times (-6) = 60$

(iii)  $(-5) \times (-8) \times (-3) = (-5) \times (24) = -120$

(iv)  $(-6) \times 6 \times (-10) = 6 \times (60) = 360$

(v)  $7 \times (-8) \times 3 = 21 \times (-8) = -168$

(vi)  $(-7) \times (-3) \times 4 = 21 \times 4 = 84$

### Solution 03

- (i) Since the number of negative integers in the product is even, the product will be positive.  
 $(4) \times (5) \times (8) \times (10) = 1600$
- (ii) Since the number of negative integers in the product is odd, the product will be negative.  
 $-(6) \times (5) \times (7) \times (2) \times (3) = -1260$
- (iii) Since the number of negative integers in the product is even, the product will be positive.  
 $(60) \times (10) \times (5) \times (1) = 3000$
- (iv) Since the number of negative integers in the product is odd, the product will be negative.  
 $-(30) \times (20) \times (5) = -3000$
- (v) Since the number of negative integers in the product is even, the product will be positive.  
 $(-3)^6 = 729$
- (vi) Since the number of negative integers in the product is odd, the product will be negative.  
 $(-5)^5 = -3125$
- (vii) Since the number of negative integers in the product is even, the product will be positive.  
 $(-1)^{200} = 1$
- (viii) Since the number of negative integers in the product is odd, the product will be negative.  
 $(-1)^{171} = -1$

#### Solution 04

**Answer :**

Multiplying 90 negative integers will yield a positive sign as the number of integers is even.  
 Multiplying any two or more positive integers always gives a positive integer.  
 The product of both(the above two cases) the positive and negative integers is also positive.  
 Therefore, the final product will have a positive sign.

#### Solution 05

Multiplying 103 negative integers will yield a negative integer, whereas 65 positive integers will give a positive integer.  
 The product of a negative integer and a positive integer is a negative integer.

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