

Do the following in your fair notebook .

2. Find sum of the following :

(i)  $-11$  and  $-11$

(ii)  $-6$  and  $6$

(iii)  $7$  and  $-17$

(iv)  $-11$  and  $5$

(v)  $-8$  and  $-13$

3. Subtract :

(i)  $-7$  from  $-3$

(ii)  $-6$  from  $6$

(iii)  $2$  from  $15$

(iv)  $-18$  from  $-8$

(v)  $-11$  from  $-6$

(vi)  $-4$  from  $12$

4. Simplify :

(i)  $|-5| + |5|$

(ii)  $-|5| + |5|$

5. Simplify :

(i)  $(-5)^6$

(ii)  $(-3)^2 \times (-2)^2 \times (-1)^3$

(iii)  $(-4)^2 \times (10)^4$

(iv)  $(-1)^{27} \times (-1)^{53} \times (-1)^4$

6. Simplify :

(i)  $5 \times [25 + \{(-4) \times (16 - 8 \div 2)\}]$

(ii)  $(11 - 5) \times [12 + \{3 + \overline{11 - 14}\}]$

SOLUTION OF THESE QUESTIONS :-

2. (i)  $(-11) + (-11) = -(11 + 11) = -22$

(ii)  $-6 + 6 = 0$

(iii)  $7 + (-17) = 7 - 17 = -10$

(iv)  $(-11) + 5 = -6$

(v)  $(-8) + (-13) = -(8 + 13) = -21$

3. (i)  $-3 - (-7) = -3 + 7 = 4$  (ii)  $6 - (-6) = 6 + 6 = 12$

(iii)  $15 - 2 = 13$

(iv)  $-8 - (-18) = -8 + 18 = 10$

(v)  $-6 - (-11) = -6 + 11 = 5$

(vi)  $12 - (-4) = 12 + 4 = 16$

4. (i)  $|-5| + |5| = 5 + 5 = 10$  (ii)  $-|5| + |5| = -5 + 5 = 0$

5. (i)  $(-5)^6 = (-5) \times (-5) \times (-5) \times (-5) \times (-5) \times (-5) = 15625$

(ii)  $(-3)^2 \times (-2)^2 \times (-1)^3$

$$= (-3) \times (-3) \times (-2) \times (-2) \times (-1) \times (-1) \times (-1)$$

$$= 9 \times 4 \times (-1) = 36 \times (-1) = -36$$

(iii)  $(-4)^2 \times (10)^4 = (-4) \times (-4) \times 10 \times 10 \times 10 \times 10$

$$= 16 \times 10000 = 160000$$

(iv)  $(-1)^{27} \times (-1)^{53} \times (-1)^4 = (-1) \times (-1) \times 1 = 1$

6. (i)  $5 \times [25 + \{(-4) \times (16 - 8 \div 2)\}]$

$$= 5 \times [25 + \{(-4) \times (16 - 4)\}]$$

$$= 5 \times [25 + \{-4 \times 12\}] = 5 \times [25 - 48]$$

$$= 5 \times [-23] = -115$$

(ii)  $(11 - 5) \times [12 + \{3 + \overline{11 - 14}\}]$

$$= (11 - 5) \times [12 + \{3 - 3\}]$$

$$= 6 \times [12 + 0] = 6 \times 12 = 72$$