

VI - Mathematics Assignment No-02 - Integers

Q1. Replace * in each of the following by < or > so that the statement is true

- (i) $0 * 6$ (ii) $-8 * -15$ (iii) $-61 * 10$
 (iv) $-12 * 12$ (v) $25 * -25$

Q2. Write the absolute value of the following

- (i) -15 (ii) 25 (iii) 0
 (iv) -180 (v) -36

Q3. Write the following integers in a decreasing order:

- (i) $0, 7, -3, -5, 15$ (ii) $3, -3, 5, -5, 7$
 (iii) $15, -14, 13, 12, 0$ (iv) $19, -19, 15, 3, -3$
 (v) $6, -7, -8, 9, -10$

Q4. Using number line, write the integer which is

- (i) 4 more than 6 (ii) 5 more than -6
 (iii) 2 less than -5 (iv) 6 less than 4

Q5. Choose the largest and smallest integer among the following

$32, -50, -75, 120, -368, 175$

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Q6. Write the answer of the following

(i) Write the smallest integer

(ii) The opposite of -5

(iii) The third number greater than -6

(iv) The integer which divides the positive and negative integers on the number line.

(v) The value of $3 * 4$ if $a * b = a + b - 2$

Q7. Simplify

(i) $10 - |-10| + 5$

(ii) $3 + |-3| + 2$

(iii) $|3 - 3| + 5$

(iv) $|5| + |7| - 12$

Q8. Write the next four integers in each of the following sequence:

(i) $-15, -10, -5, \dots$

(ii) $13, 10, 7, 4, \dots$

(iii) $-3, -8, -13, -18, \dots$

(iv) $18, 14, 10, 6, \dots$

(v) $3, 6, 9, 12, 15, \dots$

(vi) $-6, -3, 0, 3, 6, \dots$

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Q9. Use number line, add the following

(i) $7 + 3 + (-5)$

(ii) $3 + (-3) + 5$

(iii) $5 + (-2) + 1$

(iv) $12 + (-7) + 5$

(v) $10 + (-3) + 2$

Q10 Simplify without using number line.

(i) $15 + 10 + (-7) + (-3)$

(ii) $3 + (-2) + 5 + (-3)$

(iii) $12 + (-10) + 6 + 9$

(iv) $(-3) + (-2) + (-5) + 10$

ANSWERS:

(Q1) (i) $0 < 6$ (ii) $-8 > -15$ (iii) $-61 < 10$ (iv) $-12 < 12$ (v) $25 > -25$	(Q3) (i) $15, 7, -3, -5$ (ii) $7, 5, 3, -3, -5$ (iii) $15, 13, 12, 0, -14$ (iv) $19, 15, 3, -3, -19$ (v) $9, 6, -7, -8, -10$	(Q5) Largest = 175 Smallest = -365	(Q8) (i) $0, 5, 10, 15$ (ii) $1, -2, -5, -8$ (iii) $-23, -28, -33, -38$ (iv) $2, -2, -6, -10$ (v) $18, 21, 24, 27$ (vi) $9, 12, 15, 18,$
(Q2) (i) 15 (ii) 25 (iii) 0 (iv) 180 (v) 36	(Q4) (i) 10 (ii) -1 (iii) -7 (iv) -2	(Q6) NIL (i) +5 (ii) -3 (iii) 0 (iv) 5	(Q9) (i) 5 (ii) 5 (iii) 4 (iv) 10 (v) 9
		(Q7) (i) 25 (ii) 8 (iii) 5 (iv) 0	(Q10) (i) 15 (ii) 3 (iii) 17 (iv) 0