Class – VII

Chapter – 1 (Integers)

Ex – 1(A)

1) ii) All integers between -33 and -26 are :-
$(-32, -31, -30, -29, -28, -27)$ (Ans)

2) iii) $-236 > -362$

3) ii) $|-23| - |-16| = 23 - 16 = 7$ (Ans)
iv) $6 - |-4| = 6 - 4 = 2$ (Ans).

4. ii) $-31, 19, -50, -8, -23, 3, 8$
In ascending order $= -50 < -31 < -23 < -8 < 3 < 8 < 19$ (Ans).

5. ii) $0, -7, 19, -23, -3, 8, 46$
In descending order $= 46 > 19 > 8 > 0 > -3 > -7 > -23$ (Ans)

Ex – 1(B)

1. ii) $73 + (-37)$
$= 73 - 37 = 36$ (Ans)

iv) $-51 + 25$
$= -26$ (Ans)

vi) $0 + (-21)$
$= 0 - 21 = -21$ (Ans)

2. ii) Additive inverse of $-33 = +33$
iv) " " " $-476 = +476$

3. ii) $18 - (-8)$
$= 18 + 8 = 26$ (Ans)

3) v) $(-1) - (-19)$
$= -1 + 19 = 18$ (Ans)

4. ii) LHS $= (-8) + (-12) = (-8) - 12 = -20$
RHS $= (-12) + (-8) = -12 - 8 = -20$
$\therefore$ LHS = RHS (verified)

6) Required Number $= (-103 + 27) - (-137 + (-43))$
$= -76 - (-180) = -76 + 180 = 104$ (Ans)

8) The other Integer = $43 - (-27) = 43 + 27 = 70$ (Ans)

9) iii) Successor of $-206 = -206 + 1 = -205$

10) ii) Predecessor of $-351 = -351 - 1 = -352$

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Ex-1(c)

1) ii) $(-25) \times 6 = -150$ (Ans). v) $20 \times (-10) = -200$ (Ans).

vii) $(-8) \times (-13) = +104$ (Ans). ix) $(-9) \times 0 = 0$ (Ans)

2) ii) $\{(-10) \times (-5)\} \times 6 = \{50\} \times 6 = 300$ (Ans)

v) $(-11) \times \{(-8) \times 5\} = (-11) \times (-40) = +440$. (Ans)

3) ii) $\{(-7) \times 5\} \times (-6) = (-7) \times \{5 \times (-6)\}$

LHS $= \{(-7) \times 5\} \times (-6) = \{-35\} \times (-6) = +210$

RHS $= \{-7) \times \{5 \times (-6)\} = (-7) \times (-30) = +210$

$\therefore$ LHS = RHS (verified)

4) ii) $(-65) \div 13 = \frac{(-65)^{5}}{13} = -5$ (Ans)

iv) $(-9) \div (-1) = \frac{+9}{+1} = 9$ (Ans)

vi) $(-12) \div (-12) = \frac{+12}{+12}^{1} = +1$ (Ans)

6) ii) All odd integers between (-20) and (-14) are, $(-19, -17, -15)$ (Ans)

8) Five consecutive odd integers preceding (-36) are,
$-37, -39, -41, -43, -45$ (Ans)

9) The other Number $= (-120) \div 15 = \frac{-120^{8}}{15} = -8$ (Ans)

Ex - 1(D)

1> $5\{(-6)+(12\div 4)\} = 5\{(-6)+3\} = 5\times(-3) = -15$ (Ans)

3> $(-6)-\{(-28)\div(-7)\}$

$=(-6)-\{+4\}$

$=-6-4 = -10$ (Ans)

5> $11-[(-8)-\{10-(9-\overline{7-4})\}]$

$=11-[(-8)-\{10-(9-3)\}]$

$=11-[(-8)-\{10-6\}]$

$=11-[(-8)-4] = 11-[-12] = 11+12 = 23$ (Ans)

7> $10-[8-\{11+30\div(4-\overline{5-7})\}]$

$=10-[8-\{11+30\div(4+2)\}]$

$=10-[8-\{11+30\div 6\}]$

$=10-[8-\{11+05\}]$

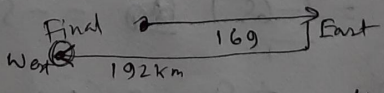
$=10-[8-16] = 10-[-8] = 10+8 = 18$ (Ans)

Ex - 1(E)

2> Required Number $= (-1)-(-7) = -1+7 = 6$ (Ans)

5> The other Number $= (-11)-5 = -16$ (Ans)

8> Final Distance From Home $= (192-169)$ km $= 23$ km, In West direction



10> Total money paid For four pair of Jeans $= 4\times ₹1256 = ₹5024$

12> Total Money Spent on the picnic $= ₹(36\times 540) - ₹(7\times 490)$

$= ₹(19440 - 3430) = ₹16010$ (Ans)

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