

Worksheet

- Choose the correct option.
 - The successor of -6 is
 - -8
 - -5
 - -7
 - -9
 - The predecessor of -13 is
 - 12
 - -14
 - -15
 - -12
 - The additive inverse of $+21$ is
 - -12
 - $\frac{1}{21}$
 - $\frac{-1}{21}$
 - -21
 - The correct sign in $|-3|$ _____ $|-25|$ is
 - $>$
 - $<$
 - $=$
 - \leq
 - The correct sign in $+18$ _____ -18 is
 - $<$
 - $>$
 - $=$
 - \leq
- Fill in the blanks.
 - The successor of -1 is _____.
 - The number which is 1 less than -16 is _____.
 - The number which is 1 more than -10 is _____.
 - $|-42| - |+42| =$ _____.
 - $(+8) \div (-8) =$ _____.
- State true or false and correct the wrong statements.
 - The product of (-12) and (-3) is the same as the product of (-3) and (-12) .
 - All negative integers are less than zero.
 - Zero is the smallest integer.
 - $0 - 4 > 0$
 - $15 \div 0 = 0$
- Put the correct sign in the following boxes ($<$, $>$, $=$):
 - 20×0 $-6 + 6$
 - $(-17) + (-1)$ $(-17) - (-1)$
 - $21 \div (-3)$ 7
 - $(-13) \times 3$ -93
 - $24 \div (-24)$ $(-6) \div 6$
- Represent the following integers on a number line:
 - Whole numbers greater than or equal to zero and less than or equal to 5
 - Integers greater than or equal to (-2) and less than or equal to 4
 - Natural numbers less than or equal to 7
 - Integers between (-13) and (-6)
 - Integers less than or equal to zero and greater than or equal to (-5)

6. Write 10 consecutive integers:
 a. preceding (-25) b. preceding $(+4)$ c. succeeding (-49)
7. Check associative property of addition in integers for the following:
 a. $13 + (-5) + (-12)$ b. $(-24) + 5 + 15$
8. Find the sum of the following using number line:
 a. $(+6) + (-2)$ b. $(-10) + (+3)$
 c. $(+7) - (-3)$ d. $(+8) - (+4)$
9. Answer the following:
 a. What number should be added to $+316$ to get 246 ?
 b. What number should be subtracted from (-125) to get 85 ?
10. Find the value of:
 a. $32 \times (-4) \times (-2)$ b. $21 \times (-1) \times (-8) \times (-2)$
 c. $180 \div (-6)$ d. $(-72) \div 24$
11. Evaluate the following:
 a. $(-142) + (-28) + 30$ b. $140 - (-40) + (-29)$
 c. $(-76) \times (-5) \times (-4)$ d. $108 \times (-9) \times (-5)$
12. Compare the following:
 a. $|3 - 2|$ _____ $3 \times (-2)$ b. $|24 \div 81|$ _____ $|-45 \div 15|$
 c. $|16 \times (-4)|$ _____ (-32×2) d. $|-8 + 3|$ _____ $|-70 \div -5|$
 e. $|-12 \times 5|$ _____ $|-60 \div 5|$
13. The minimum and maximum temperatures recorded at a place on a particular day were -10°C and $+10^\circ\text{C}$, respectively. Find the difference between these two temperatures.
14. Evaluate:
 a. $188 - 91 \div 7 + 6 \times (-2)$ b. $84 \div (10 - 6 \times 2 - 15 \div 3)$
 c. $90 \div [15 - 96 \div \{7 \times (-2) + 6 \times (-3)\}]$
 d. $42 \div (2 \text{ of } 5 + 3 \text{ of } -8) + 7(3-10)$
15. Simplify the following:
 a. $120 \div [12 - \{4 \times 5 - (98 \div 2 - 16)\}]$
 b. $160 - 240 \div [36 - \{15 - (7 - 58 \div 2 - 19)\}]$

Answers to Worksheet

1. a. ii b. ii c. iv d. ii e. ii
 2. a. 0 b. -17 c. -9 d. 0 e. -1

3. a. True b. True c. False, There is no smallest integer.
 d. False, $0 - 4 < 0$ e. False, $15 \div 0 \neq 0$. Division by zero is not defined.
4. a. = b. < c. < d. > e. =
6. a. -35, -34, -33, -32, -31, -30, -29, -28, -27, -26
 b. -6, -5, -4, -3, -2, -1, 0, +1, +2, +3
 c. -48, -47, -46, -45, -44, -43, -42, -41, -40, -39
8. a. +4 b. -7 c. 10 d. +4
9. a. -70 b. -210
10. a. 256 b. -336 c. -30 d. -3
11. a. -140 b. 151 c. -1,520 d. 4860
12. a. > b. < c. > d. < e. >
13. 20°C
14. a. 163 b. -12 c. 5 d. -52
15. a. -8 b. 150