

Operaciones con números enteros

1.  $-13 + \{-5 - [-2 - (-3 - 1) + (-7)] - (-6 + 1 - 3)\} - 5$

Sol: -10

2.  $-3 + 8 - (-3) + 4 - [3 - (-4 + 7 - 5 + 1) - 2 + 3(-1)] - 9$

Sol: 4

3.  $4 - \{6 + [3 - (10 - 6) + 7] - (5 - 2)\} + 9$

Sol: 4

4.  $-(7 - 2) + \{-[9 - (14 - 5) + 3]\} + 8$

Sol: 0

5.  $(-2)\{-4 + [(-3 + 5)(-2) + (-8 + 4):(-1 - 1)]\} + 1$

Sol: 13

6.  $(-8 + 5)(-1) + (-9 + 6 - 1):(-5 + 1) - (-8) \cdot 2$

Sol: 20

7.  $-[-(-2 + 1) + (-9):3] - (-5 + 4):(-9 + 7 + 1)$

Sol: 1

8.  $3 \cdot (-4) + 2(-2)(-1) - (-3)(-5)(-1)(-2) - 2(-3)$

Sol: -32

9.  $9: (-3) + 3(-2)(-1)5 - 12: (-1 + 4) - (-3)2(-4)$

Sol: -1

10.  $-2 - 3\{1 - 4 + (-5)[3 - 4 - 2(7 - 3 + 2)] + 6\}$

Sol: -206

11.  $(-2)^3 - (-3)^2 + [(-1)(-3)]^2 + [(-10):5]^3 + 4^2$

Sol: 0

12.  $[(-2 + 3)^5: (-1)^4 - (-2 + 7)^2 + (-2)^4: (-2)^3](-7 + 5)$

Sol: 52

$$13. (5 - 4)^3(6 - 2)^0 + \sqrt[3]{5 + 10^2 + 20} - 2[8 - 2(-2)^2]$$

Sol:6

$$14. [20 - 2(7 - 4)^2]:(5 - 3) + \sqrt{10000}:\sqrt[3]{64} - (9 - 6)^2$$

Sol: 17

$$15. (4^3 - 4 \cdot 2^3):\sqrt[4]{3(-10)^2 - 2^2 \cdot 11} - (3 + 5):2^3$$

Sol: 7

$$16. \sqrt[4]{\sqrt{10^2 - 19}}:\sqrt[3]{27} + [10^2 - 2(8 - 3)^2]:10 + 4^0$$

Sol: 7

$$17. \sqrt{(-9)^2 + 10 + (-3)^2} + [1 + (-4)^2(5 - 3)]:11 - (7 - 3 + 1):5$$

Sol: 12

$$18. \sqrt[3]{-1}(-1)^3 + (-2)(-3)^3 - \sqrt{1 + \sqrt{9}} + (-3)^2:\sqrt[3]{-27}$$

Sol: 50

$$19. (-48:12)^2 - [(-22):(-11)]^2 - [(-2)^2]^3 + (-3)^0 - [2(-5)]^2$$

Sol: -151

$$20. \sqrt[5]{(-320):10} - \sqrt{(-25)(-36)} - \sqrt[3]{27(-64):(-1 + 9)}$$

Sol: -26

$$21. \sqrt[3]{-24 - 3} + \sqrt{2^3 - (-1)^7} - [-2 - 4(-1)^5] + [(-2)^3:(-2)^2]^0$$

Sol: -1

$$22. - [(-2)^2 - (-3)(-1)^4] + \sqrt[3]{(-2)^2 \cdot 5 + 7} - [(-4)(-3 + 5) + 1]^2$$

Sol: -53

$$23. - \{-[7 + (-2)^2:(-1)^5] + (-4)^2:(-2)^4\} + \sqrt[3]{-125}:\sqrt[4]{625}$$

Sol: 1

$$24. \sqrt[3]{[(-8)^2 + 2^3] \cdot (-3)^2 + [10 - (-3)^3 \cdot (-5 + 2)] - (-9 + 5) \cdot (-1 - 1)}$$

Sol: 1

$$25. \sqrt[3]{10^2 - 6^2} - \sqrt{\sqrt{16}} + (-7 + 3)^2 \cdot (-2)^3 - [5(-2)^3 + 6^2]$$

Sol: 4

$$26. \sqrt{(\sqrt[3]{-8} \cdot \sqrt[5]{-1}) \cdot 2} - [(-1)^6(-2)^2 - 3(-5)^0] + \sqrt[7]{-1} \cdot (-1)^4$$

Sol: 0

$$27. \sqrt[3]{-108 \cdot (-4)} + \sqrt[5]{729} \cdot \sqrt[5]{-3} - \sqrt{-3(-12)} + [(-5)(-1)]^2 - [-1(-7)^3(-9)]^0 - \sqrt[3]{(-1)(-6+4)^3}$$

Sol: 16

$$28. \sqrt[3]{\left[ \left( 2\sqrt{10^2 - (-8)^2} \right) \cdot 4 + \sqrt[3]{1000000} + (5 \cdot 3 - 10)^2 \right] \cdot (5^2 - 7 \cdot 3)^2}$$

Sol: 2

$$29. [(-4 - 1 + 3) \cdot (5 - 3)]^5 - \sqrt{(-1)(-3)(-2)(2 - 8)} + \sqrt{\sqrt[3]{8} \cdot \sqrt{64}(-1)} + \sqrt[3]{1 - \sqrt{81}}$$

Sol: -5

$$30. \sqrt{\sqrt{25} + \sqrt{121}} - \sqrt[3]{2 - \sqrt[3]{3\sqrt{81}}} + \sqrt[5]{\sqrt[3]{-8} \cdot \sqrt{\sqrt{16} \cdot \sqrt{64}}}$$

Sol: 3