

HW 1-7**Int 1****Order of Operations with Exponents****Unit 1**

Find the value of each expression.

- 1) Parenthesis
- 2) Exponents
- 3) Multiply or Divide (Left to Right)
- 4) Add or Subtract (Left to Right)

1. $8 + 9 - 3 + 5$

2. $-7 \cdot 5 + 2(-3)$

3. $4^2 - 5 \cdot 2$

4. $(3^2 - (-4))(2^3 - 7)$

5. $(2^4 - 8) - (13 + -2)$

6. $2 + 24 \div 6$

7. $6^2 \cdot 4 \div 2$

8. $18 - (9 + -3) + 2$

9. $6 - 5 \cdot 2 + 3^0$

10. $18 + 24 \div 12 + 3$

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11. $-67 + 8^2 - 12 \cdot 4 \div 16$

16. $\frac{4^2 + 8^2}{35 - 15}$

12. $34 + 8 \div 2 + 4 \cdot 9$

17. $-10[8(15 - 7) - (4 \cdot 3)]$

13. $6(38 + -12) + 4$

18. $\frac{6[24 - 2(7 - 3)]}{27 \div 9}$

14. $(13 - 6)^2 - (7 \cdot 4)$

19. $[5(20 - 2)] \div \frac{-48}{2^3}$

15. $\frac{15 + 35}{-21 - 4}$

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$$20. 72 \div \left(\frac{-4 \cdot 3}{28 \div (-7)} \right)$$

$$23. \left[\frac{3(12 - 7)}{18 \div 6} \right] \cdot 6$$

$$21. \frac{7(8 + (-1)) + (42 \div 3)}{(10 - 7)^2}$$

$$24. (9^3 \div 3 + 7) \div (4^4 + (-6))$$

$$22. 114 \div [(4 \cdot 5) - (-36 \div 2)]$$

$$25. (6^2 - 3^2) - (7 + 3) - 9$$

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26. $4^3 + (-21) \div (3^2 - 2)$

In the problems below, insert operation symbols (+, -, x, ÷) and parentheses so that the equation is correct. You cannot change the order of the numbers.

27. 5 4 3 2 1 = 3

28. 5 4 3 2 1 = 0