

Order of Operations #2

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1) $20 + 60 \div 10 \cdot 3 - 2$

$$20 + 6 \cdot 3 - 2$$

$$20 + 18 - 2$$

$$38 - 2$$

(36)

5) $10 + 3(8 + 12 \div 4) - 2$

$$10 + 3(8 + 3) - 2$$

$$10 + 3 \cdot 11 - 2$$

$$10 + 33 - 2$$

$$43 - 2$$

(41)

2) $5^0 + \sqrt{49} + 12 \div 2(3)$

$$1 + 7 + 12 \div 2(3)$$

$$1 + 7 + 6(3)$$

$$1 + 7 + 18$$

$$8 + 18$$

(26)

3) $6^2 + 5(-8) + \sqrt{81} + 3^1$

$$36 + 5(-8) + 9 + 3$$

$$36 - 40 + 9 + 3$$

$$-4 + 9 + 3$$

$$\cancel{-\text{or-}} \quad \cancel{5} \quad \cancel{+3}$$

$$\cancel{36} \quad \cancel{9} \quad \cancel{+3}$$

$$\frac{3}{48} \quad \cancel{-40} \quad \cancel{\parallel} \quad \cancel{\frac{48}{40}}$$

$$\cancel{\frac{48}{40}} \quad \cancel{\parallel} \quad \cancel{\frac{48}{40}}$$

(8)

4) $\sqrt{16} - 3[5 + (9 - 2)]$

$$4 - 3[5 + 7]$$

$$4 - 3 \cdot 12$$

$$4 - 36$$

(-32)

6) $6 + 2(7 - 10 \cdot 2)$

$$6 + 2(7 - 20)$$

$$6 + 2 \cdot -13$$

$$6 - 26$$

$$\begin{array}{r} 29 \\ \times 2 \\ \hline 58 \end{array}$$

$$-20$$

(-20)

7) $1^4 + (7 - 3)^2 + 2 \cdot 3^2$

$$1 + (4)^2 + 2 \cdot 9$$

$$1 + 16 + 2 \cdot 9$$

$$1 + 16 + 18$$

$$17 + 18$$

$$\cancel{17} \quad \cancel{18}$$

$$\cancel{\frac{17}{18}} \rightarrow$$

(35)

8) $5^3 + 2[15 \div (4 - 7)]$

$$125 + 2[15 \div (-3)]$$

$$125 + 2[-5]$$

$$125 - 10$$

$$\cancel{125} \quad \cancel{-10}$$

$$\cancel{115}$$

$$\cancel{\frac{5 \cdot 5 \cdot 5}{25 \cdot 5}}$$

$$\cancel{\frac{25 \cdot 5}{125}}$$

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