

**ORDER OF OPERATIONS - A****ANSWERS**

ORDER OF OPERATIONS	
1. PARENTHESES ( )	↓
2. EXPONENTS $3^2 = 3 \times 3$	
3. MULTIPLICATION AND DIVISION $\times$ $\div$	
4. ADDITION AND SUBTRACTION $\rightarrow$ $+$ $-$	

**HELPFUL EXAMPLE**

1. PARENTHESES.

$$5 \times (4 + 5) - 2^3$$

2. EXPONENTS.

$$5 \times 9 - 2^3$$

3. MULTIPLICATION.

$$5 \times 9 - 8$$

4. SUBTRACTION.

$$45 - 8$$

$$2^3 = 2 \times 2 \times 2 = 8$$

**ANSWER: 37****USE THE ORDER OF OPERATIONS TO SOLVE EACH PROBLEM.**

1.  $4 \times (6 \div 2 + 4)$

**28**

2.  $26 - 3 \times 5 - 6$

**5**

3.  $(7 + 9) + 12 \div 4$

**19**

4.  $10 + 4^2 \times 2 - 8$

**34**

5.  $(8 - 5) \times 11 - 3^3$

**6**

6.  $12 + 6 - 5 + 3$

**16**

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

**0**

8.  $6 \times 7 - 4 \times 5$

**22**

9.  $6 \times (7 - 4) \times 5$

**90**

BRACKETS [ ] ARE LIKE PARENTHESES.

10.  $5 \times [(7 - 4) \times 3]$

$$5 \times [3 \times 3]$$

$$5 \times 9$$

**45**

11.  $(3 + 5 \times 9) \div 6$

**8**

12.  $3 \times 12 \div 2^2 \times 3$

**3**

13.  $(2 + 3)^3 - 25 \times 2$

**75**

14.  $[(34 + 6) - 4] \div 9$

**4**

15.  $8 \times [(21 - 9) \div 4]$

**24**

16.  $16 + 4^3 - 30 \times 2$

**20**

17.  $[5 \times (5 + 8)] - 2^5$

**33**

18.  $72 \div (3 \times 6 \div 2)$

**8**