

**Order Of Operations Review**

Numbers 1 - 10 are multiple-choice exercises: circle the best answer.

1. Evaluate this expression:  $37 + (4 \cdot 3 - 1)$

- (a) 42                      (b) 23                      (c) 48                      (d) 24

2. Evaluate this expression:  $18 - (2 + 3) \cdot 2$

- (a) 8                      (b) 10                      (c) 38                      (d) 18

3. Evaluate this expression:  $3(4 - 4)^2$

- (a) 12                      (b) 0                      (c) 18                      (d) 36

4. Evaluate this expression:  $6(9 - 4) \cdot 2$

- (a) 390                      (b) 30                      (c) 150                      (d) 60

5. Evaluate  $24C$  if  $C = 6$ .

- (a) 26                      (b) 72                      (c) 144                      (d) 24

6. Evaluate  $x - 5$  if  $x = 12$ .

- (a) 512                      (b) 7                      (c) 17                      (d) 60

7. Evaluate  $(16 - 2)d$  if  $d = 2$

- (a) 28                      (b) 12                      (c) 6                      (d) 0

8. Evaluate  $4x \cdot 2$  if  $x = 3$

- (a) 24                      (b) 18                      (c) 144                      (d) 36

9. Evaluate  $5B - 2A$  if  $A = 2$  and  $B = 3$

- (a) 11                      (b) 46                      (c) 4                      (d) 24

10. Evaluate  $(14 - 3)x$  if  $x = 4$

- (a) 2                      (b) 44                      (c) 1                      (d) 18

**11.** Evaluate.

**(a)**  $\sqrt{4}$

**(b)**  $\sqrt{25}$

**(c)**  $\sqrt{49}$

**(d)**  $\sqrt{0}$

**(e)**  $5^2$

**(f)**  $2^5$

**(g)**  $6^0$

**(h)**  $0^6$

**12.** Evaluate, showing all steps.

**(a)**  $(4)(5) + 4 \div 2$

**(b)**  $2(3)^2$

**(c)**  $(3 - 2)^2$

**(d)**  $(2 \cdot 3)^2$

**(e)**  $18 + (2 - 1)$

**(f)**  $(5 + 1) \div 3$

**(g)**  $(8 \div 4 - 1)^9$

**(h)**  $4[9 - (5 - 2)]$

13. Insert parentheses, if necessary, to make the equation true. Then evaluate, showing each step.

(a)  $2 + 3 \cdot 4 = 20$

(b)  $2 + 3 \cdot 4 = 14$

(c)  $10 - 2^2 = 6$

(d)  $10 - 2^2 = 64$

(e)  $2 + 3^3 - 7 \cdot 4 = 82$

(f)  $6^2 \div 7 + 4 + 1 = 3$

14. Evaluate each expression, showing all work, given:  $A = 2$   $B = 3$   $C = 4$ .

(a)  $C \cdot B^A$

(b)  $5C \div 2$

(c)  $C(B - A)$

(d)  $4C + 2A$

(e)  $(C - B)^A$

(f)  $5 \cdot C^A$