

# MATH [0172-0408] – [REAL NUMBERS REVIEW - OPERATIONS]

## Instructions:

Simplify each of the following completely:

1.  $3 + 4(-4)^2 + 5^2$

2.  $(20 - 10) \div 2 + 3$

3.  $-3^2 - 4(5) + (-3)^2$

4.  $5^3 + 4^3 \div 2^4 - 3^4$

5.  $6|3 - 2(5 \cdot 3 - 10)|$

6.  $\frac{2}{3}\left(\frac{3}{2}\right)x + \frac{7}{8} \cdot \frac{3}{4}x$

7.  $3(4x + 1) + 9x$

8.  $7x + 3(4x + 1) + 7$

9.  $4(6y + 3) - (6y - 6)$

10.  $7 - 2(3x + 5) - (2x - 3)$

11. Evaluate  
 $10x - [3x - 5(2x - 7y)]$   
when  $x = -2$  and  $y = 3$ .

12.  $\frac{6(-4) - 5(-2)}{7 - 8}$

13.  $-9 - 5\left[\frac{11(-1) - 9}{4(-3) + 2(5)}\right]$

14.  $8 - (-7)\left[\frac{6 - 1(6 - 10)}{4 - 3(5 - 7)}\right]$

15.  $6 - (-3)\left[\frac{2 - 4(3 - 8)}{1 - 5(1 - 3)}\right]$

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1. 92	2. 8	3. 20
4. 48	5. 42	6. $\frac{53}{32}x$
7. $3 + 21x$	8. $19x + 10$	9. $18y + 18$
10. $-8x$	11. -139	12. 14
13. -59	14. 15	15. 39

