NAME Selected Answers DATE _____ PERIOD _____

1-2 Skills Practice

Order of Operations

Evaluate each expression. Show EACH step!

5. $(5 + 4) \cdot 7$

$9 \cdot 7$

$\boxed{63}$

6. $(9 - 2) \cdot 3$

7. $4 + 6 \cdot 3$

$4 + 18$

$\boxed{22}$

8. $12 + 2 \cdot 2$

9. $(3 + 5) \cdot 5 + 1$

$8 \cdot 5 + 1$

$40 + 1$

$\boxed{41}$

10. $9 + 4(3 + 1)$

11. $30 - 5 \cdot 4 + 2$

$30 - 20 + 2$

$10 + 2$

$\boxed{12}$

12. $10 + 2 \cdot 6 + 4$

13. $14 \div 7 \cdot 5 - 3^2$

$2 \cdot 5 - 9$

$10 - 9$

1

14. $5 + [30 - (6 - 1)^2]$

15. $2[12 + (5 - 2)^2]$

$2[12 + (3)^2]$

$2[12 + 9]$ $\boxed{42}$

$2[21]$

17. $\dfrac{2(15 - 3 \cdot 4)^3}{3^2 - 3}$

$\dfrac{2(15-12)^3}{9-3}$

$\dfrac{2(3)^3}{6}$

$\dfrac{2 \cdot 27}{6}$

$\dfrac{54}{6} = \boxed{9}$

18. $6 + \dfrac{40 - 3(10 + 2)}{-2}$

$6 + \dfrac{40 - 3(12)}{-2}$

$6 + \dfrac{40 - 36}{-2}$

$6 + \dfrac{4}{-2}$ $6 + -2$ $\boxed{4}$

19. $22 - \sqrt{4 + 3(4)} + 17$

$22 - \sqrt{4 + 12} + 17$

$22 - \sqrt{16} + 17$

$22 - 4 + 17$

$18 + 17$

$\boxed{35}$

NAME _____ DATE _____ PERIOD _____

Evaluate each expression if $x = 6$, $y = 8$, and $z = 3$. (Substitute the known value in using parenthesis)

1. $xy + z$

$(6)(8)+(3)$
$48+3$ 51

2 $yz - x$

3. $2x + 3y - z$

$2(6)+3(8)-(3)$
$12+24-3$
$36-3$ 33

4. $2(x + z) - y$

5. $5z + (y - x)$

$5(3)+(8-6)$
$15+2$
17

6. $5x - (y + 2z)$

7. $x^2 + y^2 - 10z$

$(6)^2+(8)^2-10(3)$
$36+64-30$
$100-30$ 70

8. $z^3 + (y^2 - 4x)$

9. $\frac{y + xz}{2}$

$\frac{8+(6)(3)}{2}$

$\frac{8+18}{2}$

$\frac{26}{2}$ 13

10. $\frac{3y + x^2}{z}$