Lesson 1.3 Variables & Evaluating

Name: _____ Date: _____

Replace each variable with its value in parentheses, then use the order of operations. Last five are challenge problems!

1. Evaluate $3x + 5$ when $x = 5$.

show your work

2. Evaluate $x^2 - 4$ when $x = -5$.

show your work

3. Evaluate $2x^2 + x$ when $x = -4$.

show your work

4. Evaluate $5a - 2b$ when $a = -3$, $b = 6$.

show your work

5. Evaluate $x^2 + 3y$ when $x = -4$, $y = -4$.

show your work

6. Evaluate $4m - m^2$ when $m = -5$.

show your work

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7. Evaluate $2ab - a$ when $a = -3$, $b = 5$.

show your work

8. Evaluate $10 - 3x$ when $x = 2$.

show your work

9. Evaluate $x^2 - 2x + 1$ when $x = 6$.

show your work

10. Evaluate $(x + y)^2$ when $x = -1$, $y = -5$.

show your work

11. Evaluate $3x + 5$ when $x = 3$.

show your work

12. Evaluate $x^2 - 4$ when $x = 6$.

show your work

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13. Evaluate $2x^2 + x$ when $x = -3$.

show your work

14. Evaluate $5a - 2b$ when $a = 2$, $b = 3$.

show your work

15. Evaluate $x^2 + 3y$ when $x = 3$, $y = 3$.

show your work

16. Evaluate $4m - m^2$ when $m = -2$.

show your work

17. Evaluate $2ab - a$ when $a = 3$, $b = -2$.

show your work

18. Evaluate $10 - 3x$ when $x = -3$.

show your work

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19. Evaluate $x^2 - 2x + 1$ when $x = -3$.

show your work

20. Evaluate $(x + y)^2$ when $x = 5$, $y = -5$.

show your work

21. Evaluate $x^2 - 3x$ when $x = -4$.

show your work ★ CHALLENGE

22. Evaluate $-x^2 + 2x$ when $x = 3$.

show your work ★ CHALLENGE

23. Evaluate $(a - b)^2 \div 2$ when $a = -3$, $b = 5$.

show your work ★ CHALLENGE

24. Evaluate $a^3 + b^2$ when $a = -2$, $b = -3$.

show your work ★ CHALLENGE

25. The area of a triangle is $A = \frac{1}{2}bh$. Find A when $b = 14$ cm and $h = 9$ cm.

show your work ★ CHALLENGE

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