

QUOTABLE PUZZLES—Lesson 5

**Equations and Inequalities
A.4df**

Directions: Solve the following problems. Match that answer to the correct letter of the alphabet. Enter that letter of the alphabet on the blank corresponding to the problem number.

4 8 9 6 2 9 9 5 1 3 2 9 12 14

7 9 6 13 6 3 11 10 2 6 8 8 14

A **B** **C** **D** **E** **F** **G** **H** **I** **J** **K** **L** **M**
 172 6 2 63 8 -2 15 -21 -2 12 19.6 -12 26

N **O** **P** **Q** **R** **S** **T** **U** **V** **W** **X** **Y** **Z**
 20 3/7 316 9 21 0 -4 938 55 39 -72 29 -33

Simplify each expression:

1. $3 + 8 \div 2 - 5$

2. $4(11 + 7) - 9 \cdot 8$

3. $7(5^3 + 3^2)$

4. $5^3 + 6^3 - 5^2$

5. $-5(9 + 3) - 3 \cdot 4$

6. $(5 - 1)^3 + (11 - 2)^2 + (7 - 4)^3$

7. $(4 + 5)7$

Solve each equation:

8. $x + 6 = -6$

9. $2x - 3 = 13$

10. $-3x = 12$

11. $-20x + 4 = -396$

12. $-6 + y = 20$

13. $\frac{x}{7} = 3$

14. $\frac{x + 13}{2} = 21$

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7 9 3 6 7 9 5 1 2 12 11 14 3 6 10 8 5

4 11 15 10 4 14 13 1

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|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| A | B | C | D | E | F | G | H | I | J | K | L | M |
| 13 | <5 | 5 | -13 | 8 | -24 | 12 | >-7 | -19 | 6 | >5 | 72 | 9 |
| N | O | P | Q | R | S | T | U | V | W | X | Y | Z |
| -8 | -4 | <-7 | 65 | 21 | -6 | -5 | -43 | -32 | 87 | 0 | -28 | >31 |

Solve each equation or inequality:

1. $-3x = -24$
2. $7a + 6 = -36$
3. $-4 + y = -9$
4. $\sqrt{144}$
5. $x + 2 > 7$
6. $-3y < 21$
7. 3^2
8. $-3(x + 2) = 18$

Evaluate if a = 2, b = 5, x = 4, and n = 10.

13. $8a + b$
14. $3b + 16a - 9n$
15. $x^2 - 4n$

Simplify:

9. $\frac{17 + 9}{2}$
10. $-3 - 16$
11. $9 - 13$
12. $-15 - 13$