Name _____ Date _____

# One-Step Equations: Write and Solve Addition and Multiplication Equations

**Directions:** An equation says that two expressions are equal. To solve an equation, find the value of the variable that makes it true, and check by putting that value back into the equation. When an answer is an amount of money, type only the number.

**1.** Solve the equation $n + 9 = 23$.

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**2.** Two students solve the equation $5n = 20$.

- Mateo subtracts 5 from 20 and writes $n = 15$.
- Hana divides 20 by 5 and writes $n = 4$.

Who solved the equation correctly, and why?

A. Both, because $n = 15$ and $n = 4$ both make the equation true.

B. Mateo, because subtracting 5 undoes the 5 in front of n.

C. Hana, because 5n means 5 times n, and dividing by 5 undoes multiplying by 5.

D. Neither, because n is $5 \times 20$, which is 100.

**3.** What value of k makes $6k = 54$ true?

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**4.** Juno had some stickers. Then she got 8 more stickers, and now she has 31. Which equation can be used to find s, the number of stickers she had at first?

A. $s + 8 = 31$ B. $31 + 8 = s$ C. $s + 31 = 8$ D. $8s = 31$

**5.** Find m in the equation $m + 3.6 = 10$.

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**6.** Solve for t: $4t = 10$.

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**7.** Lina pays $3.50 for 5 granola bars that are all the same price. Which equation can she use to find g, the price in dollars of one bar?

A. $5g = 3.50$ B. $3.50g = 5$ C. $g + 5 = 3.50$ D. $5 + 3.50 = g$

**8.** Which value of n makes the equation $n + 3/8 = 7/8$ true?

A. 1/2 B. 21/64 C. 4/16 D. 1 1/4

**9.** Which equations have the solution $n = 6$? Select the two equations that 6 makes true.

☐ A. $n + 6 = 6$ ☐ B. $6n = 12$ ☐ C. $8n = 48$

☐ D. $n + 7 = 13$ ☐ E. $n + 4 = 12$

**10.** Four friends share the cost of a $34 pizza order equally. How many dollars does each friend pay?

_____ dollars