Making Sense of Addition and Subtraction Equations

In **1–8**, decide if the two sides are equal. If *yes*, write =.
If *no*, write ≠ (not equal).

1. 9 ◯ 5 + 4   **2.** 10 − 4 ◯ 5   **3.** 23 + 6 ◯ 29   **4.** 12 ◯ 14 − 1

_____   _____   _____   _____

5. 9 + 2 ◯ 7   **6.** 14 ◯ 5 + 9   **7.** 33 ◯ 44 − 11   **8.** 27 − 9 ◯ 18

_____   _____   _____   _____

In **9–16**, find the value for *n* that makes the equation true.

9. $16 = 7 + n$ **10.** $12 = n - 3$ **11.** $8 = 5 + n$ **12.** $n - 6 = 3$

_____   _____   _____   _____

13. $7 + n = 7$ **14.** $24 - n = 14$ **15.** $n = 45 + 6$ **16.** $8 = 10 - n$

_____   _____   _____   _____

For **17** and **18**, use the given equation to solve the problem.

17. Dina has 5 orchids. Mae has
13 orchids. How many more
orchids does Mae have than Dina?

$5 + n = 13$

_____

18. Juan collected 7 fewer stamps than
Jenn. Juan collected 24 stamps.
How many stamps did Jenn collect?

$n - 7 = 24$

_____

19. **Model** Derrick has 7 marbles.
Roger has *n* marbles. Together
they have 14 marbles. Write an
equation to model the problem.
How many marbles does Roger
have?

_____

20. Which value for *n* makes the
equation $n + 8 = 45$ true?

A $n = 37$ **C** $n = 41$

B $n = 38$ **D** $n = 53$