

7.2*Solving Equations*
Add or Subt

NAME _____

Date _____

Period _____

Justify your
answers!**Tell whether the given value is a solution of the equation.**

1. $34 + x = 46; x = 12$

2. $y - 9 = 14; y = 22$

3. $6d = 54; d = 9$

4. $\frac{n}{3} = 13; n = 39$

Solve the equation. Check your solution.

5. $7 + k = 11$

SolveCheck

6. $p - 24 = 13$

SolveCheck

7. $b - 16 = 7$

SolveCheck

8. $\frac{2}{5} + m = \frac{5}{6}$

SolveCheck

9. In the heavyweight class of professional wrestling, the junior weight limit is 190 pounds. This is 15 pounds heavier than the light heavyweight limit. Write and solve an equation to find the weight limit of the light heavyweight class.

ERROR ANALYSIS Describe and correct the error in solving the equation.

10.

$$\begin{array}{r} \text{X} \\ x + 7 = 13 \\ \underline{+ 7} \quad \underline{+ 7} \\ x = 20 \end{array}$$

11.

$$\begin{array}{r} \text{X} \\ 34 = y - 12 \\ \underline{- 12} \quad \underline{+ 12} \\ 22 = y \end{array}$$

12. **PENGUINS** An emperor penguin is 45 inches tall. It is 24 inches taller than a rockhopper penguin. Write and solve an equation to find the height of a rockhopper penguin. Is your answer reasonable? Explain.

