Extra Practice

Lesson 1-4

(pages 21–25)

Name the property used in each equation. Then find the value of n.

1. $4 \cdot 3 = 4 \cdot n$ Reflexive Prop.; 3
2. $\frac{5}{4} = n + 0$ Additive Identity; $\frac{5}{4}$
3. $15 = 15 \cdot n$ Multiplicative Identity; 1
4. $\frac{2}{3}n = 1$ Multiplicative Inverse; $\frac{3}{2}$
5. $2.7 + 1.3 = n + 2.7$ Symmetric Prop.; 1.3
6. $n\left(6^2 \cdot \frac{1}{36}\right) = 4$ Multiplicative Identity and Multiplicative Inverse; 4
7. $8n = 0$ Multiplicative Prop. of 0; 0
8. $n = \frac{1}{9} \cdot 9$ Multiplicative Inverse; 1
9. $5 + 7 = 5 + n$ Reflexive Prop.; 7
10. $(13 - 4)(2) = 9n$ Substitution; 2

Evaluate each expression. Name the property used in each step. 11–13. See margin.

11. $\frac{2}{3}[15 \div (12 - 2)]$
12. $\frac{7}{4}\left[4 \cdot \left(\frac{1}{8} \cdot 8\right)\right]$
13. $[(18 \div 3) \cdot 0] \cdot 10$

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11. $\frac{2}{3}[15 \div (10)]$, Substitution; $\frac{2}{3}\left(\frac{3}{2}\right)$, Substitution; 1, Multiplicative Inverse
12. $\frac{7}{4}[4 \cdot 1]$, Multiplicative Inverse; $\frac{7}{4}(4)$, Multiplicative Identity; 7, Substitution
13. $[(6) \cdot 0] \cdot 10$, Substitution; $(0) \cdot 10$, Multiplicative Prop. of 0; 0, Multiplicative Prop. of 0