

**Chapter 8 Test**

$$1. \quad \frac{6 \cancel{\text{ft}}}{8 \cancel{\text{ft}}} = \frac{3 \cdot \cancel{2}}{4 \cdot \cancel{2}} = \frac{3}{4}$$

$$2. \quad 3 \text{ pounds} = 48 \text{ ounces}$$

$$\frac{8 \cancel{\text{ounces}}}{48 \cancel{\text{ounces}}} = \frac{1 \cdot \cancel{8}}{6 \cdot \cancel{8}} = \frac{1}{6}$$

$$3. \quad \text{COMPARISON SHOPPING}$$

$$\frac{\$3.38}{2 \text{ lb}} = \$1.69 \text{ per lb}$$

$$\frac{\$8.50}{5 \text{ lb}} \approx \$1.70 \text{ per lb}$$

The 2 lb can is the better buy.

$$4. \quad \text{UTILITY COSTS}$$

$$\frac{675 \text{ kwh}}{30 \text{ days}} = 22.5 \text{ kwh per day}$$

$$5. \quad \text{CHECKERS}$$

$$\frac{1}{1}, 1:1, 1 \text{ to } 1$$

$$6. \quad 25 \cdot 460 = 11,500; 33 \cdot 350 = 11,550$$

no

$$7. \quad 2.2 \cdot 2.8 = 6.16; 3.5 \cdot 1.76 = 6.16$$

yes

$$8. \quad \frac{7}{15} = \frac{245}{525} ?$$

$$7 \cdot 525 = 3,675; 15 \cdot 245 = 3,675$$

yes

$$9. \quad \frac{x}{3} = \frac{35}{7}$$

$$7x = 105$$

$$\frac{7x}{7} = \frac{105}{7}$$

$$x = 15$$

$$10. \quad \frac{15.3}{x} = \frac{3}{12.4}$$

$$3x = 189.72$$

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$$x = 63.24$$

