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## Problem Solving · Applications Real

**13.** There are 11 rows of 24 boxes in the warehouse. Each box weighs 6.78 pounds. Use parentheses to write two different expressions to show the total weight of the boxes. Which property does your pair of expressions demonstrate? What is the total weight?

- **14.** Apples cost \$1.88 per pound. Use properties to determine how much 6.5 pounds would cost.
- **15.** Sefina bought 8 tickets to a play. Each ticket costs \$18.76. To find the total cost in dollars, she added the product  $8 \times 18$  to the product  $8 \times 0.76$ , for a total of 150.08. Which property did Sefina use?
- **16.** Omari wrote  $1.8 \times (3.4 2.1) =$  $(1.8 \times 3.4) - 2.1$ . Is Omari's equation sense or nonsense? Did she apply the properties correctly? Explain.



**17.** Find the property that each equation shows.

$$2.1 \times (4.9 \times 3.72) = (2.1 \times 4.9) \times 3.72$$
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1 × 13.604 = 13.604 ●

 $0.007 \times 0.45 = 0.45 \times 0.007$  •

 $26.825 \times 0 = 0$  •

- Zero Property of Multiplication
- Commutative Property of Multiplication
- Associative Property of Multiplication
- Identity Property of Multiplication

