7. Parking You buy a campus parking permit for $250. During the year, you get four $15 parking tickets. Which of the following keystroke sequences is better for finding your total parking cost? Explain your reasoning. *(See Example 3.)*

   a. $(\; 2 \; 5 \; 0 \; + \; 4 \;) \; \times \; 1 \; 5 \; =$

   b. $2 \; 5 \; 0 \; + \; (\; 4 \; \times \; 1 \; 5 \;) \; =$

8. Books Your books for this semester cost $95, $120, and $115. Which of the following keystroke sequences is better for finding your average book cost? Explain your reasoning. *(See Example 3.)*

   a. $(\; 9 \; 5 \; + \; 1 \; 2 \; 0 \; + \; 1 \; 1 \; 5 \;) \; \div \; 3 \; =$

   b. $(\; 9 \; 5 \; + \; 1 \; 2 \; 0 \;) \; + \; 1 \; 1 \; 5 \; \div \; 3 \; =$

9. Pizza Party You buy 3 pizzas for $10 each and 5 bottles of cola for $2 each. Which of the following keystroke sequences is better for finding the total cost? Explain your reasoning. *(See Example 3.)*

   a. $(\; 3 \; \times \; 1 \; 0 \;) \; + \; (\; 5 \; \times \; 2 \;) \; =$

   b. $(\; 3 \; \times \; 1 \; 0 \;) \; + \; 5 \; \times \; 2 \; =$

10. Depreciation A new car worth $25,000 depreciates at a rate of 50% every 3 years. The value of the car after 6 years is $25,000(0.5^2)$. Which of the following keystroke sequences is better for finding the value of the car? Explain your reasoning. *(See Example 3.)*
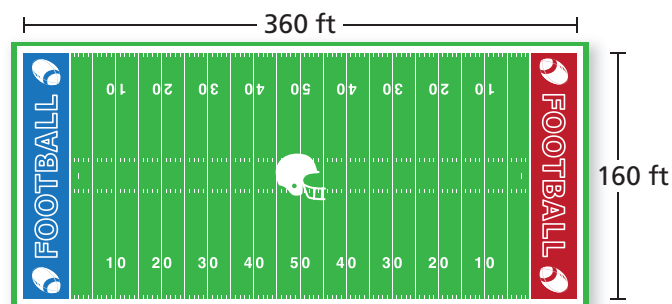
   a. $(\; 2 \; 5 \; 0 \; 0 \; 0 \; \times \; . \; 5 \;) \; \wedge \; 2 \; =$

   b. $2 \; 5 \; 0 \; 0 \; 0 \; \times \; (\; . \; 5 \; \wedge \; 2 \;) \; =$

Football Field **In Exercises 11 and 12, use the diagram of the football field.** *(See Example 4.)*

11. You are buying lawn seed for the football field. A 10-pound bag of lawn seed covers 2000 square feet.

   a. How many 10-pound bags of lawn seed should you buy?

   b. A 10-pound bag of lawn seed costs $27.79. What is the total cost of your purchase?

12. Latex paint is used to paint the end zones of the football field. Each gallon of paint must be diluted with 1 gallon of water. One gallon of diluted latex paint covers 100 square feet.

   a. Each end zone is 30 feet long. How many gallons of undiluted latex paint are needed to paint both end zones?

   b. Why do you think the paint is diluted?