Multiplication Word Problems

1. Which expression matches the story? Make sure you understand why.

a. There were twelve boxes with six books in each, and seven bags with ten books in each.	$12 + 6 + 7 \times 10$ $12 \times 6 \times 10$ $12 \times 6 + 7 \times 10$ $12 \times 6 \times 7 \times 10$
b. A school bus can seat 42 children. Seven buses were full, and in the eighth bus there were six empty seats.	$42 \div 7 + 6$ $42 \times 7 + 6$ $42 \times 6 \times 42 - 6$ $42 \times 7 + 36$
c. Of the shipment of 5,000 CDs, the store sold seven stacks of 50 CDs, and 27 individual CDs the first day. How many are left?	$5,000 - 50 - 27$ $5,000 - 50 \times 27$ $5,000 - 7 \times 50 - 27$ $5,000 - 7 \times 50 + 27$

2. Write a numerical expression (number sentence) like those in exercise 1. Then solve.

a. Karen bought five cans of food for $1.99 each, and seven cans of food for $1.28 each. What was the total?	**b.** Jim bought eight cans of each of three different kinds of cat food. One kind cost $1.25, the second kind cost $1.64, and the third kind cost $0.79. What was the total cost?
c. How many people can you fit in twelve buses that can hold 39 passengers each, and seventeen minivans that can hold 9 persons each?	**d.** A truck contains 500 boxes that weigh 20 kg each, a car weighing 500 kg, and ten 45-kg tables. What is the total weight?
e. Jerry bought five boxes of nails for $4.58 and seven boxes of screws for $2.83. What was his change from $100?	**f.** How many days are there from September to May (in other words, not including June, July, or August)?
g. Dad's regular wage is $11 per hour. He gets $15 per hour for overtime. He was paid for 160 regular hours and 55 hours of overtime. How much was his total paycheck?	**h.** If Dad worked eighteen eight-hour days, and 22 hours of overtime, how much would he earn?