Lesson 6 Problem-Solving Practice

The Distributive Property

For Exercises 1 and 2, use the table that shows the number of seats available on various types of aircrafts.

Aircraft	Seats
737	150
757	183
767	250
MD-88	142
777	268

1. SEATS How many total seats will the airline gain by purchasing three more of both the 737 aircrafts and MD-88 aircrafts?	2. PASSENGERS How many more passengers can sit on four 777 aircrafts than on four 767 aircrafts?
3. SEATING The Valley High School Auditorium is able to seat 8 elementary school groups of 65 students each. Use the Distributive Property to determine how many students they can seat.	4. SHOPPING Five friends each buy a shirt that costs <i>x</i> dollars and a pair of shoes that cost \$24.00. Write an expression to show how much total money they spent. Then rewrite the expression using the Distributive Property.
5. CARS A rental company buys 7 compact cars for \$8,500 each and 7 midsize cars for \$12,500 each. How much total money will they spend?	6. BAKING A baking company charges \$1.75 per slice of cake for baking and \$0.35 per slice for decorating. How much would a decorated cake cost containing 150 slices?