1-7 Standardized Test Prep
The Distributive Property

Multiple Choice

For Exercises 1–6, choose the correct letter.

1. What is the simplified form of the expression $6(4x - 7)$?
   A. $10x - 1$ 　　　 B. $24x - 7$ 　　　 C. $24x - 42$ 　　　 D. $24x + 42$

2. What is the simplified form of the expression $-2(-5x - 8)$?
   F. $-7x - 10$ 　　　 G. $10x - 8$ 　　　 H. $10x - 16$ 　　　 I. $10x + 16$

3. What is the simplified form of the expression $14mn + 6mn^2 - 8mn - 7m^2n + 5m^2n$?
   A. $10m^2n^2$
   B. $6mn - 4m^2n$
   C. $6mn + 5m^2n - 1mn^2$
   D. $6mn - 2m^2n + 6mn^2$

4. Concert tickets cost $14.95 each. Which expression represents the total cost of 25 tickets?
   F. $25(15 - 0.05)$ 　　 G. $25(15 + 0.05)$ 　　 H. $15(25 - 10.05)$ 　　 I. $25(15) - 0.05$

5. Which expression represents 7 times the sum of a number and 8?
   A. $7n + 8$ 　　　 B. $7(n + 8)$ 　　　 C. $8(n + 7)$ 　　　 D. $n + 56$

6. There are 297 students in a senior class. The cost of the senior trip is $150 per student. Which expression represents the total cost of the senior trip?
   F. $150(300)$ 　　　 G. $300(150 - 3)$ 　　　 H. $150(300 - 3)$ 　　　 I. $150(300) - 3$

Short Response

7. The profit Samantha's company makes is given by the expression $0.1(1000 + 300m)$ where m is total number of sales. Rewrite this expression using the Distributive Property. What is the profit if her company sells 50 pieces of merchandise? Use mental math.