# Chapter Standardized Test

**1.** Which of the following numbers is a solution of the inequality $9 - x \geq 2$?

   **A** 7        **B** 8        **C** 9        **D** 10

**2.** What is the value of the expression $[(5 \cdot 9) \div x] + 6$ when $x = 3$?

   **A** 5        **B** 15        **C** 18        **D** 21

**3.** Which variable expression is a translation of "5 times the difference of 8 and a number $x$"?

   **A** $5(8 - x)$    **B** $x - 5 \cdot 8$    **C** $5 \cdot 8 - x$    **D** $5 - 8x$

**4.** The number of students on the football team is 2 more than 3 times the number of students on the basketball team. If the basketball team has $y$ students, write a variable expression for the number of students on the football team.

   **A** $3y$        **B** $3y - 2$        **C** $2 + 3y$        **D** $2y + 3$

**5.** Which of the following represent a function?

**I.**

| Input | Output |
|-------|--------|
| 1 | 4 |
| 2 | 4 |
| 3 | 6 |
| 4 | 6 |

**II.**

| Input | Output |
|-------|--------|
| 1 | 3 |
| 2 | 3 |
| 3 | 4 |
| 4 | 4 |

**III.**

| Input | Output |
|-------|--------|
| 1 | 3 |
| 1 | 3 |
| 2 | 4 |
| 3 | 5 |

   **A** All    **B** I and II    **C** I and III    **D** II and III    **E** None of these

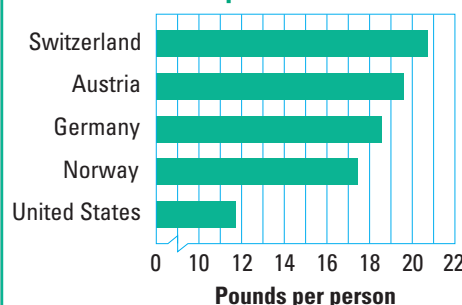**Use the graph to compare the amount of chocolate eaten in different countries.**

**6.** About how many more pounds of chocolate per person is consumed in Switzerland than in the United States?

   **A** 7        **B** 6        **C** 9        **D** 3

**7.** About how many more pounds of chocolate per person is consumed in Norway than in the United States?

   **A** 1.1        **B** 5.7        **C** 6.8        **D** 7.8

**Annual Consumption of Chocolate**



Switzerland, Austria, Germany, Norway, United States — Pounds per person: 0 10 12 14 16 18 20 22

▶ Source: Chocolate Manufacturers Association