# 2-7 Standardized Test Prep

Solving Proportions

## Multiple Choice

**For Exercises 1–5, choose the correct letter.**

1. What is the solution to the proportion $\frac{3}{5} = \frac{x}{10}$?

   **A.** $\frac{10}{3}$      **B.** 6      **C.** 10      **D.** 150

2. What is the solution to the proportion $\frac{x-1}{x} = \frac{2}{3}$?

   **F.** $-2$      **G.** 0      **H.** 2      **I.** 3

3. There are 105 members of the high school marching band. For every 3 boys there are 4 girls. Which proportion represents how many boys are in the marching band?

   **A.** $\frac{3}{7} = \frac{b}{105}$      **B.** $\frac{3}{4} = \frac{b}{105}$      **C.** $\frac{4}{7} = \frac{b}{105}$      **D.** $\frac{7}{3} = \frac{b}{105}$

4. A baker is making bread dough. He uses 3 cups of flour for every 8 ounces of water. How many cups of flour will he use if he uses 96 ounces of water?

   **F.** 4      **G.** 12      **H.** 32      **I.** 36

5. Mr. Carter offered to stay after school for an extra help session, and $\frac{2}{11}$ of his students stayed for the session. If there were 24 students that stayed for the help session, how many students does Mr. Carter teach throughout the day?

   **A.** 100      **B.** 121      **C.** 132      **D.** 144

## Extended Response

6. Elisabeth goes on a 5 mile run each Saturday. Her run typically takes her 45 minutes. She wants to increase this distance to 7 miles. Determine the proportion you use to find the time it would take her to run 7 miles. Solve the proportion. What proportion can be used to determine the time it takes for her to run a marathon, which is approximately 26 miles? What is her time?