2-5 Standardized Test Prep
Literal Equations and Formulas

Multiple Choice

For Exercises 1–5, choose the correct letter.

1. What is the value of the expression $-2(3x - 2) + x + 9$ when $x = -3$?

   A. -16 **B.** -2 **C.** 28   **D.** 34

2. What is the value of the expression $6m + m - 4(-2m + 1 - m)$ when $m = -8$?

   F. -156 **G.** -92 **H.** -44 **I.** 36

3. What is the solution of $2d = \dfrac{a - b}{b - c}$ when you solve for a?

   A. $2d - b + c + b$

   B. $\dfrac{2d + b}{b - c}$

   C. $\dfrac{2d}{b - c} + b$

   D. $2d(b - c) + b$

4. A triangle has area 49.5 cm^2. If the base of the triangle is 9 cm, what is the height of the triangle?

   F. 5.5 cm   **G.** 11 cm   **H.** 222.75 cm   **I.** 445.5 cm

5. A circle has circumference 10.99 yd. What is the radius of the circle? Round to the nearest tenth if necessary. (Use 3.14 for π.)

   A. 1.8 yd   **B.** 3.5 yd   **C.** 7 yd   **D.** 34.5 yd

Short Response

6. The formula for the circumference of a circle is $C = 2\pi r$, where r is the radius of the circle.

   a. What is the formula when solved for r?

   b. What is the radius of a circle with a circumference of 37.7 m? Round to the nearest tenth if necessary.