Name _____

Find the value of x that makes the equation true. CHECK your answer.

1. $-5(2x - 9) + 17 = 6x - 6$

2. Solve and check: $5(3x + 4) - 2x = 6x + 6x - 43$

3. Solve and check: $11(x + 10) = 132$

4. The sum of three consecutive integers is 84. Determine the smallest integer.

5. If $c = 2m + d$, find the value of m.

6. The formula for the volume of a right circular cylinder is $V = \pi r^2 h$. The value of h can be expressed as

   1) $\dfrac{V}{\pi} r^2$

   2) $\dfrac{V}{\pi r^2}$

   3) $\dfrac{\pi r^2}{V}$

   4) $V - \pi r^2$

7. Shoe sizes and foot length are related by the formula $S = 3F - 24$, where S represents the shoe size and F represents the length of the foot, in inches.

   A) Solve the formula for F.

   B) To the *nearest tenth of an inch,* how long is the foot of a person who wears a size 10½ shoe?