

Answer Key

Lesson 10.5

Challenge Practice

1. 14 and 16 **2.** 11 and 13 **3.** 23 and 24

4. 14 and 15 **5.** 17 and 39

6. $x = \frac{-b - \sqrt{b^2 + 28}}{2}, x = \frac{-b + \sqrt{b^2 + 28}}{2}$

7. $x = \frac{5 - \sqrt{37 - 4c}}{2}, x = \frac{5 + \sqrt{37 - 4c}}{2}$

8. $x = \frac{-b - \sqrt{b^2 - 4c}}{2}, x = \frac{-b + \sqrt{b^2 - 4c}}{2}$

9. $x = \frac{-b - \sqrt{b^2 - 4ac}}{2a}, x = \frac{-b + \sqrt{b^2 - 4ac}}{2a}$

10. 17 feet wide by 35 feet long **11.** 2.08 sec