Irrational Square Roots
Practice – Answer Key

Directions: Approximate the solution for each equation given the irrational numbers.

1. a: $a = 3\pi$ ≈ **9.42**
2. x: $x = 8\pi$ ≈ **25.12**
3. b: $b = 9\pi$ ≈ **28.26**
4. c: $c = 12\pi$ ≈ **37.68**
5. a: $a = 2\pi$ ≈ **6.28**
6. y: $y = 6\pi$ ≈ **18.84**
7. b: $b = 7\pi$ ≈ **21.98**
8. d: $d = 12\pi - 6$ ≈ **31.68**
9. a: $a = 14\pi - 9$ ≈ **34.96**
10. x: $x = 11\pi - 5$ ≈ **29.54**
11. $\sqrt{2} + 5 = x$ ≈ **6.41**
12. $8 = \sqrt{2} + x$ ≈ **6.59**
13. $t = \pi - 5.3$ ≈ **–2.16**
14. $\sqrt{h} = \sqrt{6} - \frac{3}{4}$ ≈ **2.89**
15. Mrs. DeFazio wrote the following equation on the board. $w = \sqrt{11} - 2^2$ What is the value of w in Mrs. DeFazio's equation? ≈ **–0.68**