Lesson 9.4 Practice: Special Right Triangles

School Launch · Geometry · Unit 9: Right Triangles and Trigonometry · Worksheet A

Calculator allowed

Name _____ Date _____ Score _____ / 10

Show your work under each problem, one step per line, and check your answer. Word problems: name the unknown, write the equation, solve, and answer in a sentence with units.

1. A 30-60-90 triangle has a short leg of 3. Find the long leg and the hypotenuse. EASY

2. A 30-60-90 triangle has a short leg of 7. Find the long leg and the hypotenuse. EASY

3. A 45-45-90 triangle has legs of 11. Find the hypotenuse. EASY

4. A 30-60-90 triangle has a long leg of 11. Find the short leg and the hypotenuse (simplest radical form). MEDIUM

5. A 45-45-90 triangle has hypotenuse 3. Find each leg in simplest radical form. MEDIUM

6. A 30-60-90 triangle has a long leg of 12. Find the short leg and the hypotenuse (simplest radical form). MEDIUM

7. A 45-45-90 triangle has hypotenuse 2. Find each leg in simplest radical form. MEDIUM

8. A 45-45-90 triangle has hypotenuse 10. Find each leg in simplest radical form. HARD

9. A 30-60-90 triangle has a long leg of 2. Find the short leg and the hypotenuse (simplest radical form). HARD

10. A 30-60-90 triangle has a long leg of 5. Find the short leg and the hypotenuse (simplest radical form). HARD