Lesson 2.2 Practice: The 30-60-90 Triangle

School Launch · Trigonometry · Unit 2: Special Right Triangles and Exact Values · Worksheet A

Scientific calculator

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 short leg 3. Find the other two sides (simplest radical form). EASY

2. A 30-60-90 triangle has short leg 6. Find the other two sides (simplest radical form). EASY

3. A 30-60-90 triangle has short leg 4. Find the other two sides (simplest radical form). EASY

4. A 30-60-90 triangle has short leg 10. Find the other two sides (simplest radical form). MEDIUM

5. A 30-60-90 triangle has hypotenuse 15. Find the other two sides (simplest radical form). MEDIUM

6. A 30-60-90 triangle has short leg 5. Find the other two sides (simplest radical form). MEDIUM

7. A 30-60-90 triangle has short leg 8. Find the other two sides (simplest radical form). MEDIUM

8. A 30-60-90 triangle has short leg 13. Find the other two sides (simplest radical form). HARD

9. A 30-60-90 triangle has hypotenuse 9. Find the other two sides (simplest radical form). HARD

10. A 30-60-90 triangle has long leg 4. Find the other two sides (simplest radical form). HARD