Lesson 1.3 Practice: Finding Unknown Sides

School Launch · Trigonometry · Unit 1: Right-Triangle Trigonometry · 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. In a right triangle with acute angle $60°$, the hypotenuse is 16. Find the adjacent side (nearest tenth). EASY

2. In a right triangle with acute angle $30°$, the hypotenuse is 28. Find the adjacent side (nearest tenth). EASY

3. In a right triangle with acute angle $25°$, the adjacent leg is 57. Find the opposite leg side (nearest tenth). EASY

4. In a right triangle with acute angle $70°$, the hypotenuse is 44. Find the opposite side (nearest tenth). MEDIUM

5. In a right triangle with acute angle $38°$, the hypotenuse is 13. Find the opposite side (nearest tenth). MEDIUM

6. In a right triangle with acute angle $38°$, the hypotenuse is 53. Find the adjacent side (nearest tenth). MEDIUM

7. In a right triangle with acute angle $64°$, the hypotenuse is 5. Find the adjacent side (nearest tenth). MEDIUM

8. In a right triangle with acute angle $68°$, the adjacent side is 11. Find the hypotenuse (nearest tenth). HARD

9. In a right triangle with acute angle $16°$, the adjacent leg is 6. Find the opposite leg side (nearest tenth). HARD

10. In a right triangle with acute angle $49°$, the adjacent side is 37. Find the hypotenuse (nearest tenth). HARD