Lesson 12.6 Practice: The Pythagorean Theorem

School Launch · Pre-Algebra · Unit 12: Geometry · Worksheet A

No 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 right triangle has legs 13 and 2. Find the hypotenuse (exact, and to the nearest tenth). EASY

2. A right triangle has legs 6 and 14. Find the hypotenuse (exact, and to the nearest tenth). EASY

3. A right triangle has legs 4 and 2. Find the hypotenuse (exact, and to the nearest tenth). EASY

4. A right triangle has hypotenuse 28 and one leg 5. Find the other leg (exact). MEDIUM

5. A right triangle has hypotenuse 14 and one leg 7. Find the other leg (exact). MEDIUM

6. A right triangle has hypotenuse 29 and one leg 9. Find the other leg (exact). MEDIUM

7. A right triangle has hypotenuse 12 and one leg 3. Find the other leg (exact). MEDIUM

8. A 28-foot ladder leans against a wall with its foot 3 ft from the wall. How high up the wall does it reach (nearest tenth)? HARD

9. A 28-foot ladder leans against a wall with its foot 9 ft from the wall. How high up the wall does it reach (nearest tenth)? HARD

10. A 25-foot ladder leans against a wall with its foot 3 ft from the wall. How high up the wall does it reach (nearest tenth)? HARD