

Name: _____

Date: _____

UNIT 1 • RELATIONSHIPS BETWEEN QUANTITIES AND EXPRESSIONS

Lesson 1: Working with Radicals and Properties of Real Numbers

Lesson 1.1.1: Working with Radicals and Properties of Real Numbers

Warm-Up 1.1.1

The length of the diagonal of a square, d , is related to the length of a side, s , by the following formula:

$$d = \sqrt{2} \cdot s.$$

1. What is the perimeter, in terms of s , of the triangle formed by two adjacent sides and the diagonal of the square?

2. What is the perimeter of the triangle if $s = 3$ feet? Round your answer to the nearest hundredth.