

Practice Worksheet for Lesson 8-4

Name:

Mailbox #:

Complete the following table using the given diagram. Be sure to show the proportion you used in the space provided below the table (this is necessary for full credit). All answers should be in simplified root form (no decimals).

	#1	#2	#3	#4
a	3			
b			$5\sqrt{3}$	
c		$5\sqrt{2}$		9

Work:

#1

#2

#3

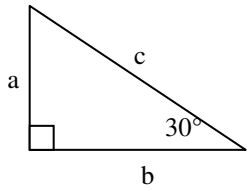
#4

5) Find the length of a diagonal of a square whose perimeter is 48 (draw a diagram and label it to help you). Show all work and leave answer in simplified root form.

6) A diagonal of a square has length 8. What is the perimeter of the square (draw a diagram and label it to help you)? Show all work and leave answer in simplified root form.

Complete the following table using the given diagram. Be sure to show the proportion you used in the space provided below the table (this is necessary for full credit). All answers should be in simplified root form (no decimals).

	#7	#8	#9	#10
a	10			
b			$5\sqrt{3}$	15
c		24		



Work:

#7

#8

#9

#10

11) An altitude of an equilateral triangle has length $6\sqrt{3}$. What is the perimeter of the triangle? (draw a diagram and label it to help you). Show all work.

12) The perimeter of a rhombus is 64 and one of its angles has measure 120° . Find the lengths of both diagonals (draw a diagram and label it to help you). Show all work and leave answers in simplified root form.