

# 8-3 Geometric Mean of Right Triangles

Name: \_\_\_\_\_

Time Start: \_\_\_\_\_ Finish: \_\_\_\_\_

Total Time = \_\_\_\_\_

Simplify each radical below.

1.  $\sqrt{40} =$  \_\_\_\_\_

2.  $\sqrt{50} =$  \_\_\_\_\_

3.  $\sqrt{200} =$  \_\_\_\_\_

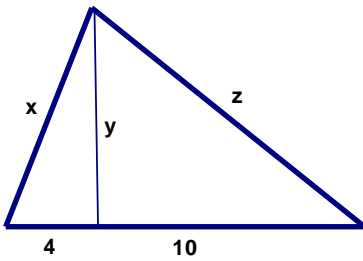
4.  $\sqrt{18} =$  \_\_\_\_\_

5.  $\sqrt{32} =$  \_\_\_\_\_

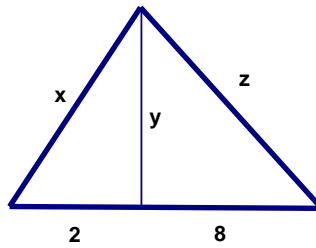
6.  $\sqrt{1000} =$  \_\_\_\_\_

Consider the right triangles below and give the value of the unknown variable or variables.

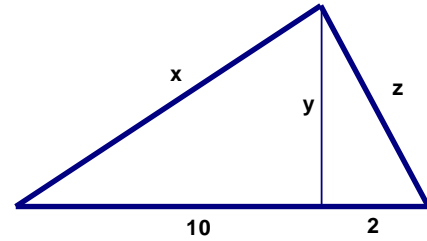
Triangle 1



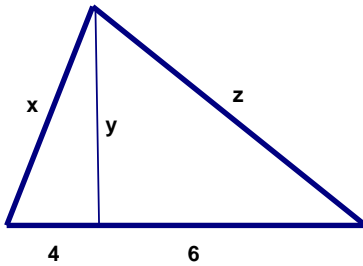
Triangle 2



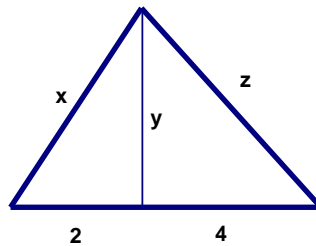
Triangle 3



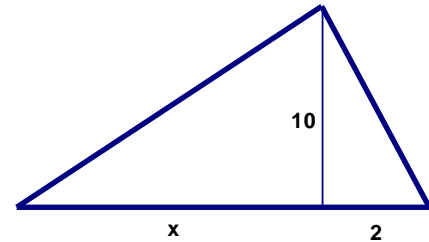
Triangle 4



Triangle 5



Triangle 6



Triangle 1:  $x =$  \_\_\_\_\_  $y =$  \_\_\_\_\_  $z =$  \_\_\_\_\_

Triangle 2:  $x =$  \_\_\_\_\_  $y =$  \_\_\_\_\_  $z =$  \_\_\_\_\_

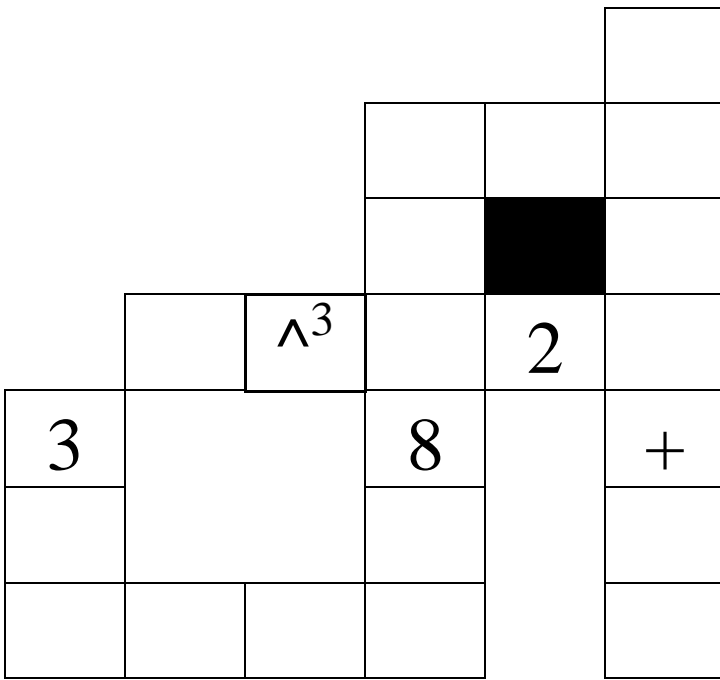
Triangle 3:  $x =$  \_\_\_\_\_  $y =$  \_\_\_\_\_  $z =$  \_\_\_\_\_

Triangle 4:  $x =$  \_\_\_\_\_  $y =$  \_\_\_\_\_  $z =$  \_\_\_\_\_

Triangle 5:  $x =$  \_\_\_\_\_  $y =$  \_\_\_\_\_  $z =$  \_\_\_\_\_

Triangle 6:  $x =$  \_\_\_\_\_

# Mabble 16



1 2 3 3 4 4 6

7 7 8 ! \* = =

= = =