Name:	Date:
name:	bate:

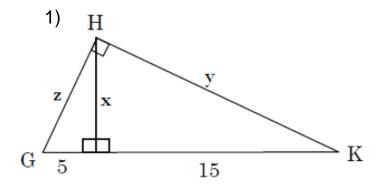
## **Geometry Unit 5 Day 6**

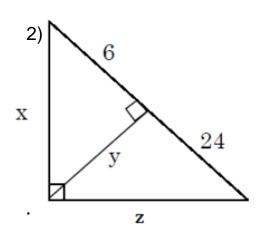
## Geometric Mean of similar right triangles

## Show work to support your answers!!

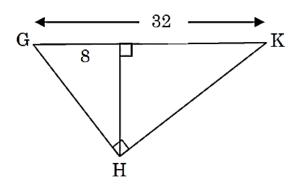
Solve for the variables x, y, and z in each triangle.



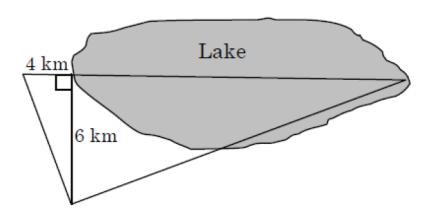




3) Determine the lengths of GH and HK.



Determine the distance across the lake? 4)



 ${\bf 5)}$  Kirstie is testing values that would make triangle  ${\it KLM}$  a right triangle when  $\overline{LN}$  is an altitude, and KM = 16, as shown below.

Which lengths would make triangle *KLM* a right triangle?

- (1) LM = 13 and KN = 6 (3) KL = 11 and KN = 7
- (2) LM = 12 and NM = 9 (4) LN = 8 and NM = 10

