Name:	Date:
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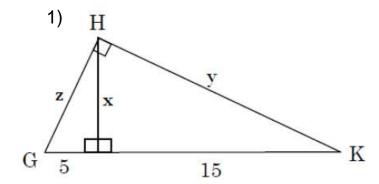
Geometry Unit 5 Day 6

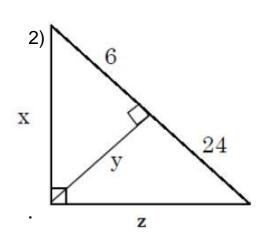
Geometric Mean of similar right triangles

Show work to support your answers!!

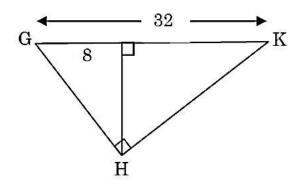
Solve for the variables x, y, and z in each triangle.



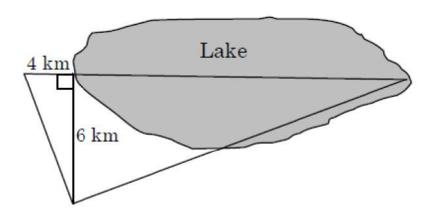




3) Determine the lengths of GH and HK.



4) Determine the distance across the lake?



5) Kirstie is testing values that would make triangle 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

