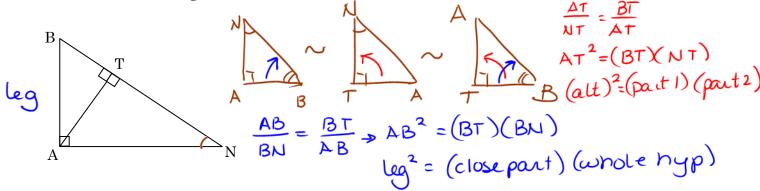
Worksheet 1 Altitude to the Hypotenuse

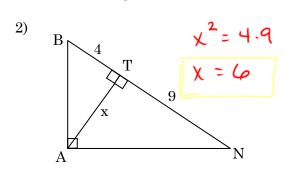
1) If an altitude is drawn to the hypotenuse of triangle BAN below, then name and redraw the 3 similar triangles created.



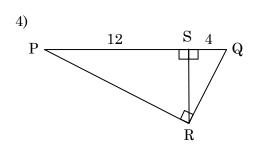
3)

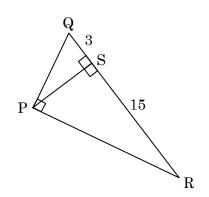
5)

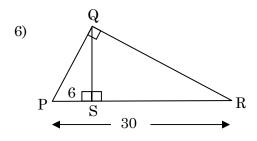
Find the missing value "x" below:



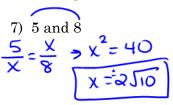
For 4-6 find the length of the altitude of right triangle PQR. $\,$







Find the geometric mean of the following numbers.





9)
$$4$$
 and 9 $\times = \frac{1}{6}$

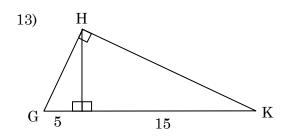
10) 2 and 25

11) 6 and 8

12) 8 and 32

For 7-9 find the length of each leg of right triangle GHK. (find GH and HK)

Hint: find altitude first, then you can do similar triangles or Pythagorean Theorem.



14) 3 K

15) How far is it across the lake?

