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## Geometric mean in triangles worksheet answers

The mean proportion is any value that can be expressed just the way that 'x' is in the proportion on the aboveon the left. In the proportion aboveon the left 'x', is the geometric mean, we could solve for x by cross multiplying and going from there (more on that later) In the proportion aboveon the left, '4', is the geometric mean It turns out the when you drop an altitude (h in the picture below) from the the right angle of a right triangle, the length of the altitude becomes a geometric mean. This occurs because you end up with similar triangles which have proportional sides and the altitude is the long leg of 1 triangle and the short leg of the other similar triangle . Diagram 1. To better understand how the altitude of a right triangle acts as a mean proportion in similar triangles, look at the triangle below with sides a, b and c and altitude H. SAAS HLLS (Case 1) HLLH (Case 2) 
$$\frac{\text{altitude}}{\text{side1}} = \frac{\text{side1}}{\text{altitude}} \implies \frac{H}{b} = \frac{b}{H} \implies H^2 = b^2 \implies H = b$$
 
$$\frac{\text{altitude}}{\text{side2}} = \frac{\text{side2}}{\text{altitude}} \implies \frac{H}{c} = \frac{c}{H} \implies H^2 = c^2 \implies H = c$$
 
$$\frac{\text{side1}}{\text{side2}} = \frac{\text{side2}}{\text{side1}} \implies \frac{b}{c} = \frac{c}{b} \implies b^2 = c^2 \implies b = c$$
 Drag Points And Click Button To Start Students usually have to solve 2 different core types of problems involving the geometric mean. The altitude and hypotenuse As you can see in the picture below, this problem type involves the altitude and 2 sides of the inner triangles ( these are just the two parts of the large outer triangle's hypotenuse) . This lets us set up a mean proportion involving the altitude and those two sides (see demonstration above if you need to be convinced that these are indeed corresponding sides of similar triangles .) What is the length of the altitude below? Involves the hypotenuse of the large outer triangle, one its legs and a side from one of the inner triangles. Find the value of x in the triangle below: Thanks to the HHS Math department for how to think about this topic! Related: geometric mean worksheet puzzle answers geometric mean worksheet kuta geometric mean worksheet doc 8.1 geometric mean worksheet geometric mean proportion worksheet geometric mean practice worksheet answers honors geometry geometric mean in triangles worksheet answers mean proportional worksheet honors geometry geometric mean in triangles worksheet answers

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