## Similarity Worksheet 4



Figure 1

Refer to Figure 1 for questions 1-3.

1. Find and compare the ratios of the side opposite $\angle A$ to the hypotenuse.
.
2. Find and compare the ratios of the side adjacent to $\angle A$ to the hypotenuse.
3. Find and compare the ratios of the side opposite $\angle A$ to the angle's adjacent side.

For questions 4-5, use the following information. A right triangle has a hypotenuse of 17 and an angle of $76^{\circ}$ opposite leg $a$.
4. What is the length of leg $a$ ?
5. What is the length of the other leg, $b$ ?

For questions 6-7, use the following
information. A right triangle has a hypotenuse of 43 and an angle of $61^{\circ}$ opposite leg $f$.
6. What is the length of leg $f$ ?
7. What is the length of the other leg, $g$ ?

For questions 8-9, use the following information. A right triangle has legs a and b and a hypotenuse $c$. The value of $b=8$. The angle opposite a is
8. What is the length of leg $a$ ?
9. What is the length of hypotenuse $c$ ?
10. A right triangle has a hypotenuse of 16 and a side length opposite $\theta$ of 12 . What is the value of $\theta$ ?
©2012 Shmoop University, Inc. All rights reserved. For classroom use only. Want to print this out for your classroom? Go for it. All other reproduction and distribution is prohibited.
http://www.shmoop.com/calculus/
Shmoop will make you a better lover (of literature, math, life...)

