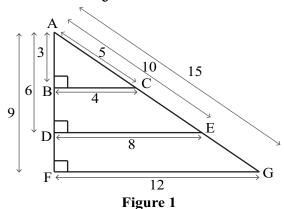
Similarity Worksheet 4



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° opposite leg a.

- 4. What is the length of $\log a$?
- 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° opposite leg f.

- 6. What is the length of leg f?
- 7. What is the length of the other leg, q?

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 $\log a$?
- 9. What is the length of hypotenuse c?
- 10. A right triangle has a hypotenuse of 16 and a side length opposite θ of 12. What is the value of θ ?

©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.