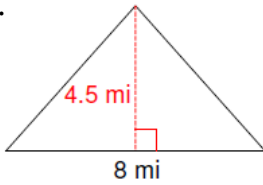


Day 6: Area of a Triangle

1. Find the area of the triangles below:

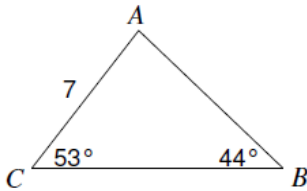
a.



b.



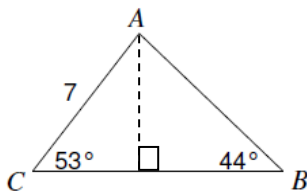
c.



2. How is the third example different than the first two?

3. What information do you need to find the area of the third example?

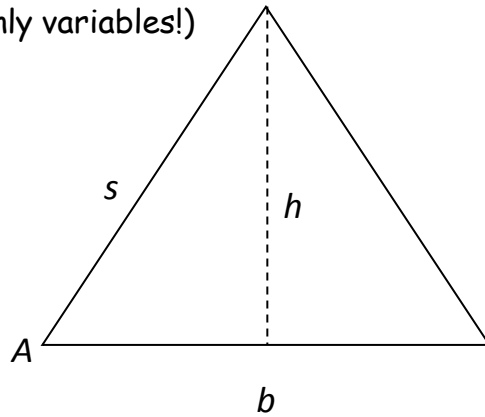
4. If you draw the height of the triangle, what type of triangle do you create?



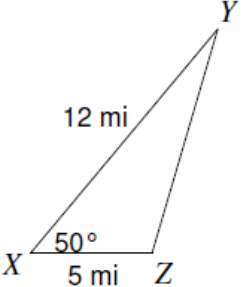
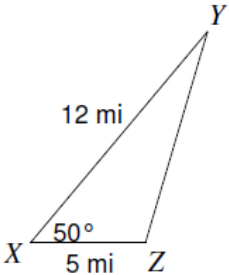
5. How can we find the height of the triangle using what we have learned about finding missing sides in right triangles?

6. Find the height and area of the third example.

7. Follow the same procedure and find the area of the triangle below. (Be careful, there are no numbers, only variables!)



8. CONCLUSION: We can find the area of a triangle when given two sides and the included angle using the formula:

<p>Example: Find the area of the triangle</p> 	
<p>1. Drop the height to create a right triangle</p>	
<p>2. Use SOHCAHTOA to solve for the missing height</p>	
<p>3. Use the found height and the given base to calculate area</p>	

