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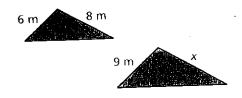
## Similar Figures Mini-Lesson

<u>Today's Learning Goal:</u> At the end of today's lesson, you should be able to solve problems involving similar figures

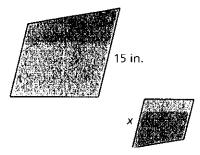
Similar figures are figures that have the	but not necessarily the	necessarily the	
Similar figures have matching angles, which are called matching sides, which are called	an	ıd	
In order to find an unknown measure in a similar figure, you use a _ Corresponding side lengths in similar figures are proportional.	<u>.</u>		

## Examples:

1. The two triangles are similar. Find the value of x.



2. The two quadrilaterals are similar. The ratio of their perimeters is 12:5. Find the value of x.

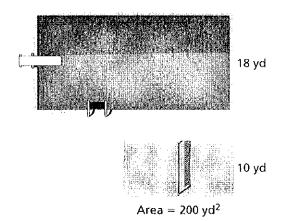


3. A 6.5 foot tall car standing next to an adult elephant casts a 33.2 foot shadow. If the adult elephant casts a shadow that is 51.5 feet long, then how tall is it?

4.	A person tha	t is 6 feet tall casts a 3-foot long shadow.	A nearby palm tree casts a 15-foot
	long shadow.	What is the height h of the palm tree?	

5. A 6 feet tall tent standing next to a cardboard box casts a 9 foot shadow. If the cardboard box casts a shadow that is 6 feet long, how tall is the box?

6. A swimming pool is similar in shape to a volleyball court. What is the area of the pool?



Progress Monitoring: How do you feel about your level of understanding of solving problems involving similar figures? (Rate yourself from 0 (don't understand at all) to 10 (doing awesome))

