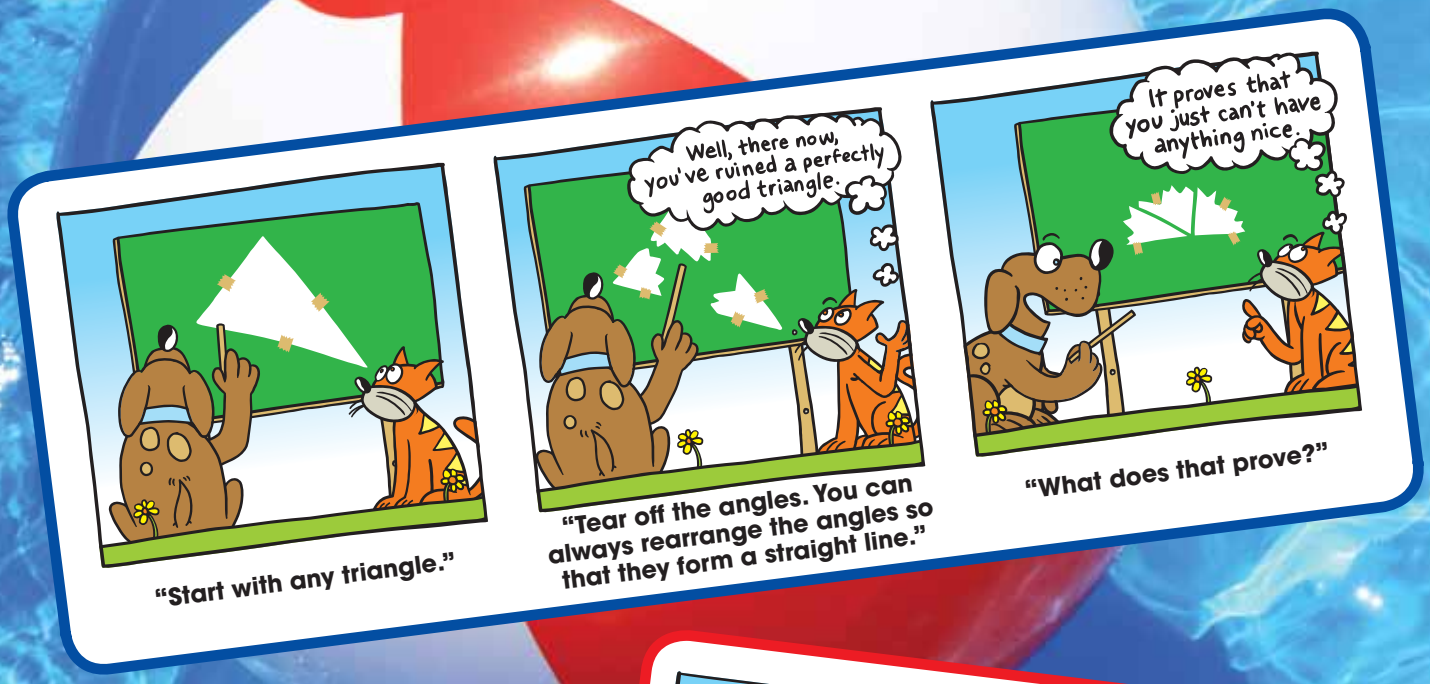
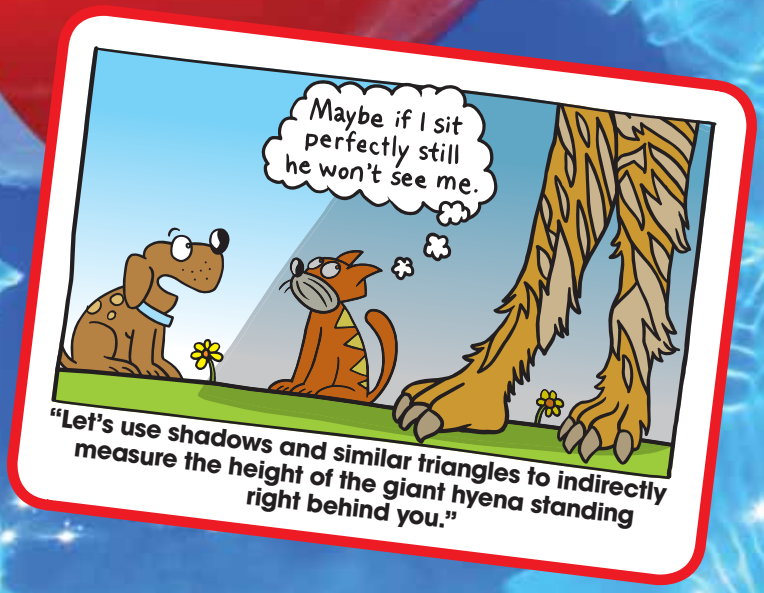
English Spanish

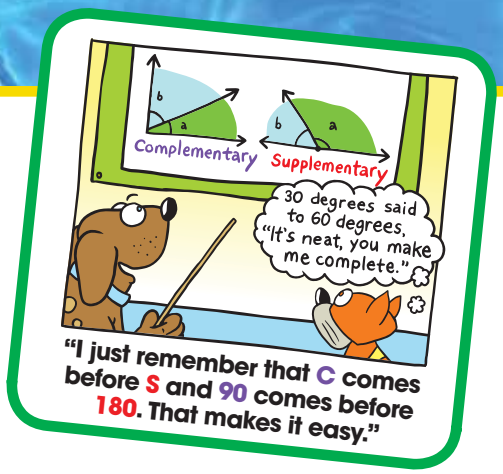
5 Angles and Similarity





English Spanish

What You Learned Before



Finding Unknown Measures in Similar Triangles

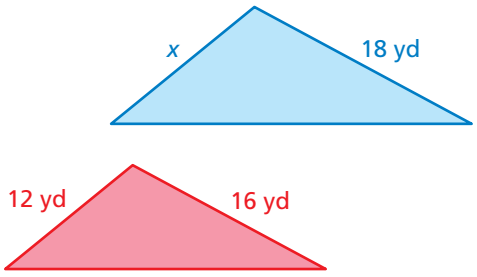
Example 1 **The two triangles are similar. Find the value of *x*.**

$\frac{16}{18} = \frac{12}{x}$ Write a proportion.

$16x = 216$ Use Cross Products Property.

$x = 13.5$ Divide each side by 16.

So, x is 13.5 yards.



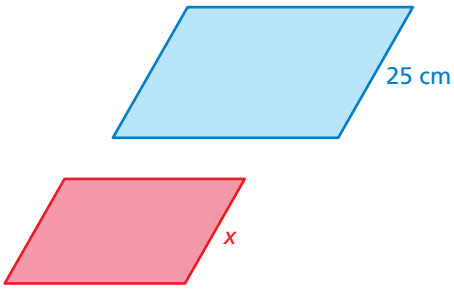
Example 2 **The two quadrilaterals are similar. The ratio of their perimeters is 4 : 5. Find the value of *x*.**

$\frac{4}{5} = \frac{x}{25}$ Write a proportion.

$100 = 5x$ Use Cross Products Property.

$20 = x$ Divide each side by 5.

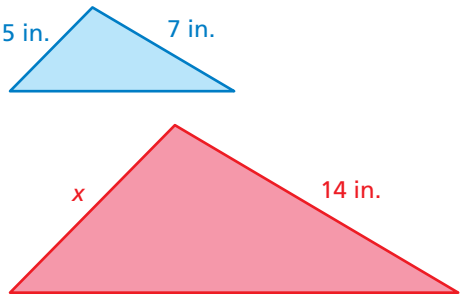
So, x is 20 centimeters.



Try It Yourself

The polygons are similar. Find the value of *x*.

1.



2. The ratio of the perimeters is 2 : 1.