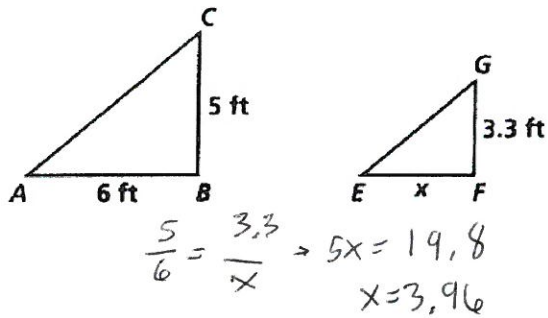
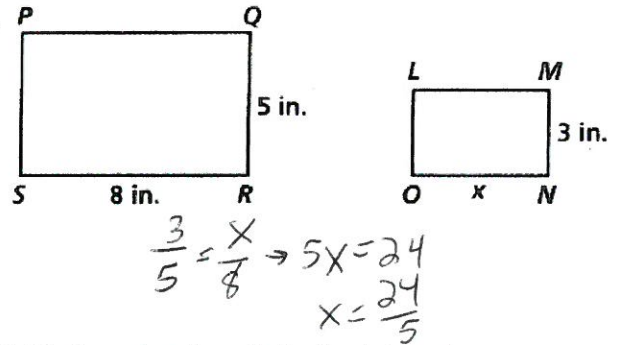


Algebra The polygons are similar. Find the values of the variables.

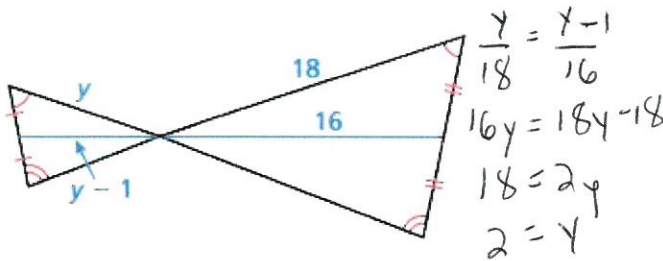
13.



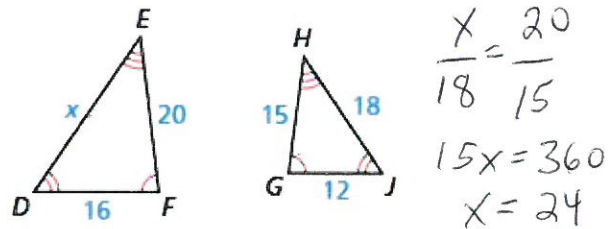
14.



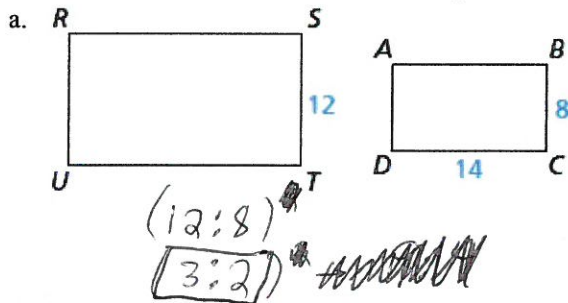
15. Find y .



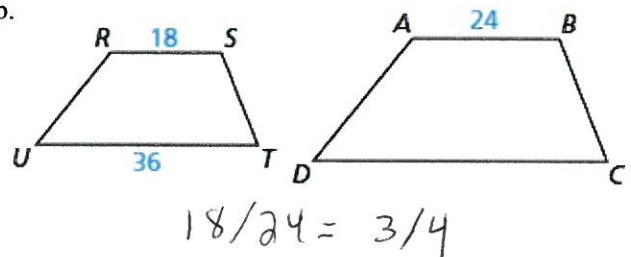
16. Find x and write a similarity statement.



17. Given $RSTU \sim ABCD$, find the ratio of their perimeters.



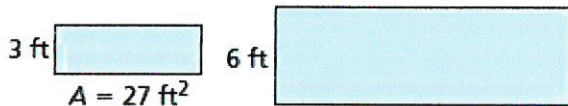
b.



In Exercises 19–22, the polygons are similar. The area of one polygon is given. Find the area of the other polygon.

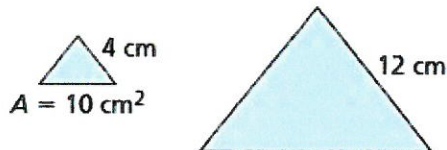
(See Example 5.)

19.



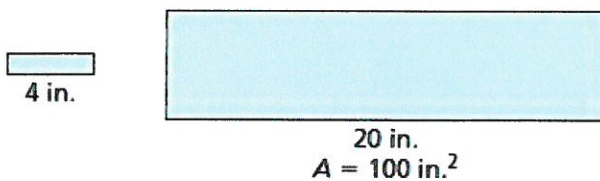
$3:6 = 1:2$
 Ratio of Areas $1^2:2^2$
 $1:4$
 $27 \times 4 = 108$

20.



$4:12 = 1:3$
 Ratio of Areas $= 1:9$
 $10 \times 9 = 90$

21.



$4:20 = 1:5$
 Ratio of Areas $= 1:5^2 = 1:25$
 $100 \div 25 = 4$