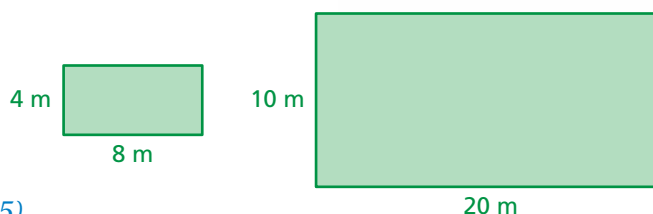


2.5–2.7 Quiz

Check It Out
Progress Check
BigIdeasMath.com

1. Tell whether the two rectangles are similar. Explain your reasoning. (Section 2.5)

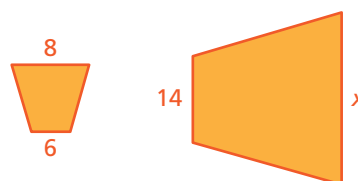


The figures are similar. Find x . (Section 2.5)

2.

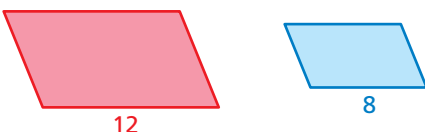


3.

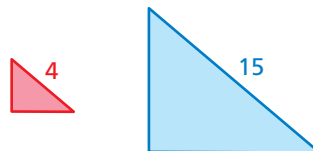


The two figures are similar. Find the ratios (red to blue) of the perimeters and of the areas. (Section 2.6)

4.

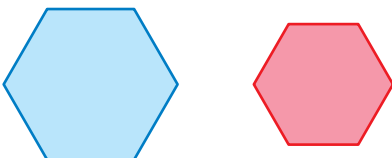


5.

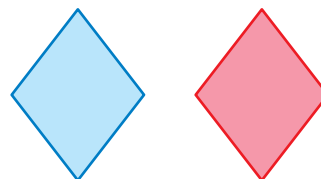


Tell whether the blue figure is a dilation of the red figure. (Section 2.7)

6.



7.



8. **SCREENS** The TV screen is similar to the computer screen. What is the area of the TV screen? (Section 2.6)

9. **GEOMETRY** The vertices of a rectangle are $A(2, 4)$, $B(5, 4)$, $C(5, -1)$, and $D(2, -1)$. Dilate the rectangle with respect to the origin using a scale factor of $\frac{1}{2}$. Then translate it 4 units left and 3 units down. What are the coordinates of the image? (Section 2.7)



10. **TENNIS COURT** The tennis courts for singles and doubles matches are different sizes. Are the courts similar? Explain. (Section 2.5)

