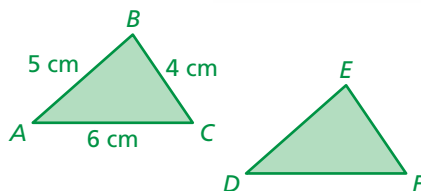


2 Chapter Test

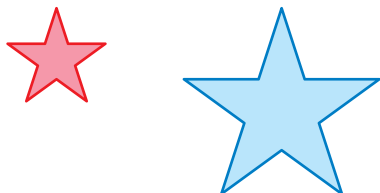
Triangles ABC and DEF are congruent.

- Which angle of DEF corresponds to $\angle C$?
- What is the perimeter of DEF ?

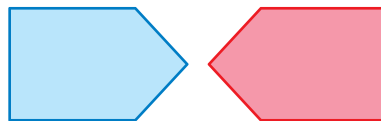


Tell whether the blue figure is a *translation*, *reflection*, *rotation*, or *dilation* of the red figure.

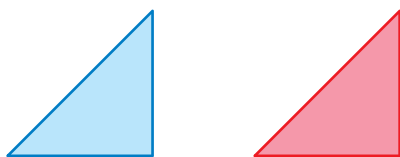
3.



4.



5.



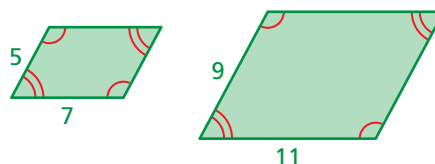
6.



- The vertices of a triangle are $A(2, 5)$, $B(1, 2)$, and $C(3, 1)$. Reflect the triangle in the x -axis, and then rotate the triangle 90° counterclockwise about the origin. What are the coordinates of the image?

- The vertices of a triangle are $A(2, 4)$, $B(2, 1)$, and $C(5, 1)$. Dilate the triangle with respect to the origin using a scale factor of 2. Then translate the triangle 2 units left and 1 unit up. What are the coordinates of the image?

- Tell whether the parallelograms are similar. Explain your reasoning.

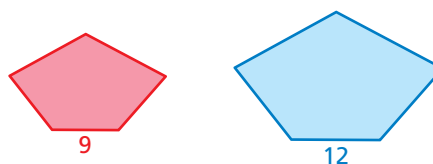


The two figures are similar. Find the ratios (red to blue) of the perimeters and of the areas.

10.



11.



- SCREENS** A wide-screen television measures 36 inches by 54 inches. A movie theater screen measures 42 feet by 63 feet. Are the screens similar? Explain.

- CURTAINS** You want to use the rectangular piece of fabric shown to make a set of curtains for your window. Name the types of congruent shapes you can make with one straight cut. Draw an example of each type.

