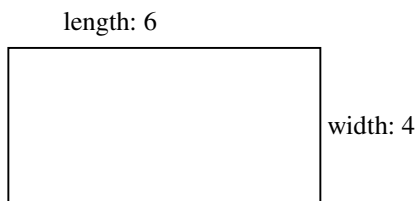


**6D Use critical attributes to define similarity**

1. Which set of measurements describes a rectangle similar to the one shown below?

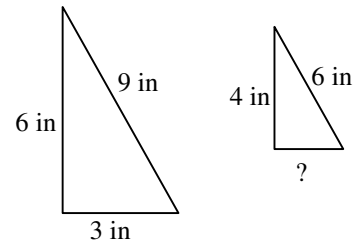


- A length: 8, width: 6
- B length: 12, width: 2
- C length: 5, width: 3
- D length: 12, width: 8

2. A tree 4 meters tall casts a shadow of 14 meters. At the same time, a nearby building casts a shadow of 42 meters. How tall is the building?

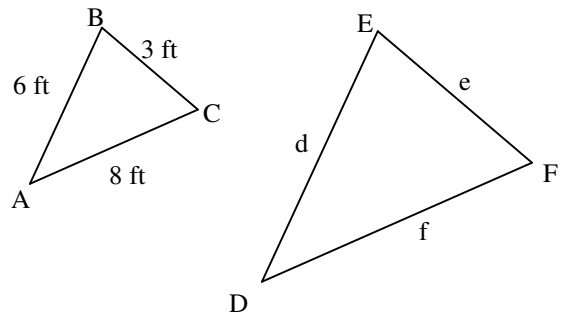
- A 7 m
- B 12 m
- C 21 m
- D 32 m

3. The triangles below are similar. What is the missing length?



- A 2 in.
- B 3 in.
- C 6 in.
- D 10 in.

4. If  $\triangle DEF$  is similar to  $\triangle ABC$ , which are possible dimensions of  $\triangle DEF$ ?



- A  $d = 7$  ft.,  $e = 4$  ft.,  $f = 9$  ft.
- B  $d = 18$  ft.,  $e = 9$  ft.,  $f = 24$  ft.
- C  $d = 12$  ft.,  $e = 9$  ft.,  $f = 32$  ft.
- D  $d = 6$  ft.,  $e = 6$  ft.,  $f = 9$  ft.