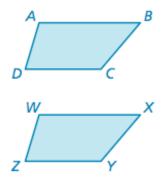
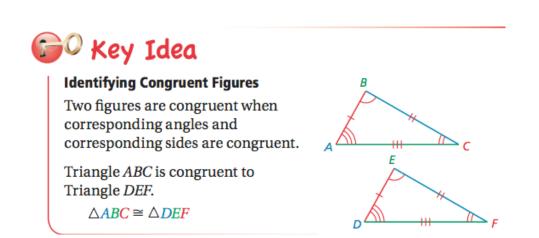


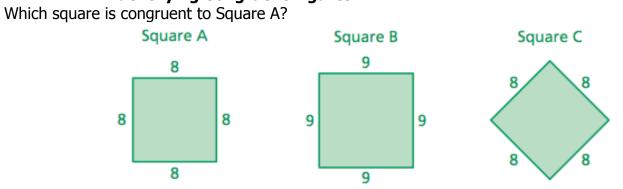
## **EXAMPLE 1: Naming Corresponding Parts**

The figures are congruent. Name the corresponding angles **and** the corresponding sides.





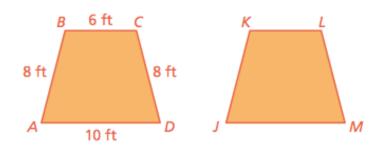
# **EXAMPLE 2: Identifying Congruent Figures**



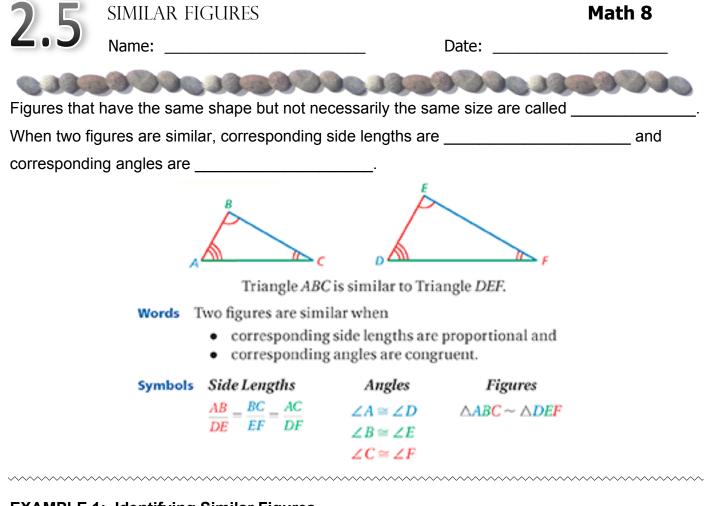
# **EXAMPLE 3: Using Congruent Figures**

Trapezoids ABCD and JKLM are congruent.

a) What is the length of JM?

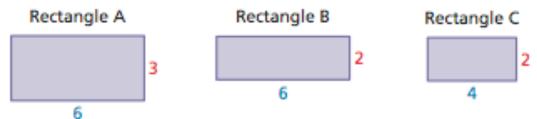


b) What is the perimeter of JKLM?

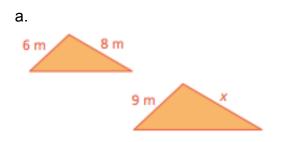


### **EXAMPLE 1: Identifying Similar Figures**

Which two rectangles are similar?



#### **EXAMPLE 2:** Finding an Unknown Measure in Similar Figures The shapes are similar. Find x.



## **EXAMPLE 3:** Real-Life Application



An artist draws a replica of a painting that is on the Berlin Wall. The painting includes a red trapezoid. The shorter base of the similar trapezoid in the replica is 3.75 inches. What is the height, h, of the trapezoid in the replica?

