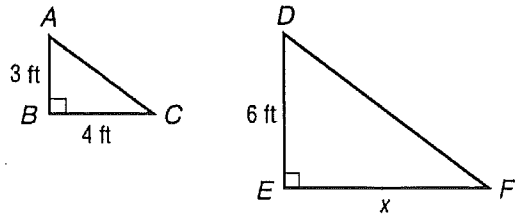
NAME _____ DATE _____ PERIOD _____

11-6 Skills Practice

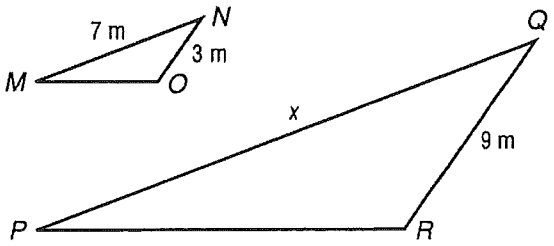
Similar Figures

Find the value of x in each pair of similar figures.

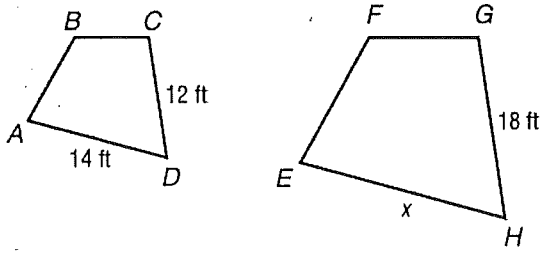
1.



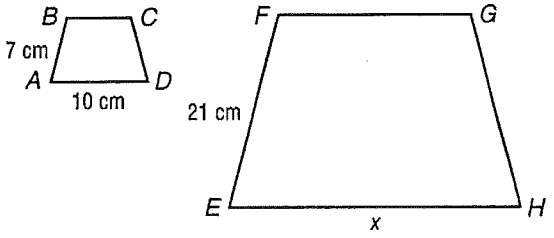
2.



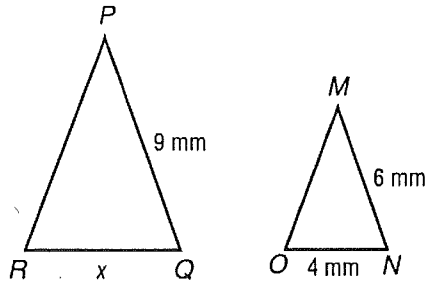
3.



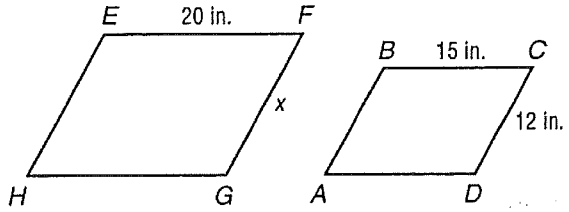
4.



5.

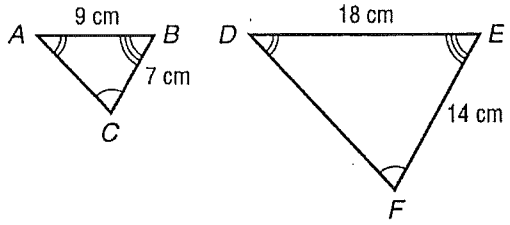


6.

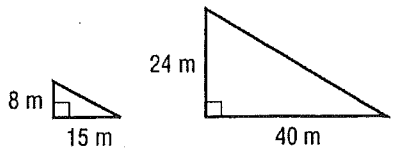


Determine whether each pair of figures is similar. Justify your answer.

7.



8.

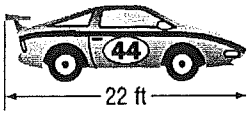


NAME _____ DATE _____ PERIOD _____

11-6 Word Problem Practice

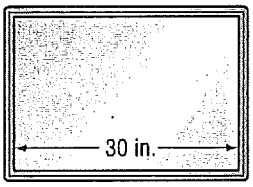
Similar Figures

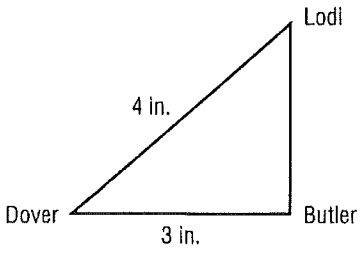
MODEL CARS **For Exercises 1 and 2, use the following information. A scale model racing car is 11 inches long, 3 inches wide, and 2 inches tall. The actual racing car is shown at the right.**



1. How wide is the actual racing car?	2. How tall is the actual racing car?

PHOTOGRAPHY **For Exercises 3–4, use the given information. James wants to enlarge a photograph that is 6 inches wide and 4 inches tall so that it fits into the frame shown.**



3. How tall must the frame be for the picture to fit?	4. Suppose James cuts 1 inch from the width of the photo, so that it is 5 inches wide, before he makes the enlargement. How tall will the frame have to be for the picture to fit?
5. **MAPS** A map below shows the towns of Dover, Butler, and Lodi. If the actual distance between Dover and Butler is 24 miles, how far is it from Dover to Lodi? 	6. **BLUEPRINTS** A blueprint for a house is shown below. If the front of the house is actually 30 feet wide, how tall is the house?