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Na	ne Date	Class
	Ready to Go On? Quiz continued	
5-9	Scale Drawings and Scale Models Shou	o work.
9.	The wingspan of an airplane is 108 feet. On a scale model of the airplane, the wingspan is 3 feet. What is the scale factor?	136
10.	In Angel Stadium, located in Anaheim, California, the distant from home plate to the left field wall is 330 ft. What will the	
	distance be in a diagram of the field with a scale factor of 1.65 Ft or about 1Ft	
11.	On a map, the distance from one city to another measures about 5.3 cm. What is the approximate distance between those two cities if the map scale is 1 cm = 50 km.	245 Km
12.	The blueprint of the Nguyen house is done with a scale fa	actor
	of $\frac{1}{16}$. If the length of a bedroom measures 8.5 in. on the	
	diagram, what is the approximate length of the actual bed whous 11.3 FF or 11 FF. 4 in	lroom?
	What is the exact scale factor of the model of a bridge, if the distance from end to end of the model is 5 in. and that same distance on the actual bridge is 120 ft?	1
14.	A scale model of Tyrannosaurus Rex has a scale factor	
	of $\frac{1}{36}$ and a height of 6 inches. How tall would it the actual dinosaur be?	18 ft. or 216 in
	The distance between Dallas, Texas, and Denver, Colorado, measures 10 cm on a map. The actual distance is 663 miles. What would be the approximate map measurement for the distance between Dallas and El Paso, Texas, which lie 572 miles apart?	8.4 CM

1

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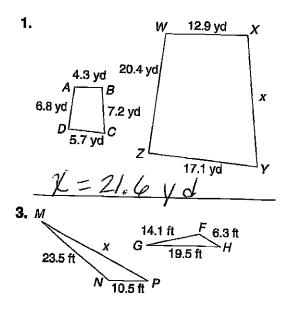
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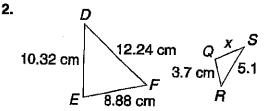
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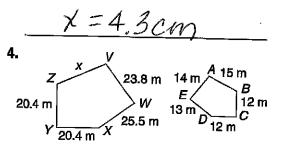
Name _____ Date _____ Class _____

LESSON Practice C 5-8 Using Similar Figures

Find the unknown length in each pair of similar figures.



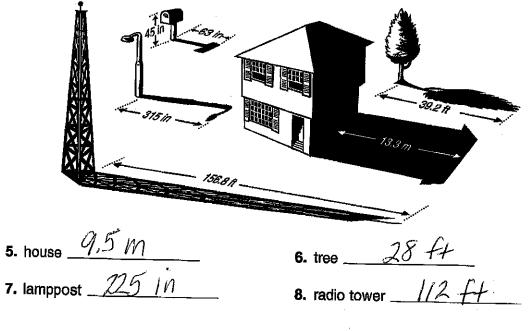




 $\chi = 32.5 ff$

 $\chi = 22.1 m$

Estimate the height of each object in the picture below.

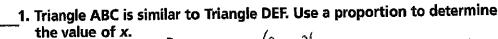


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Holt Mathematics

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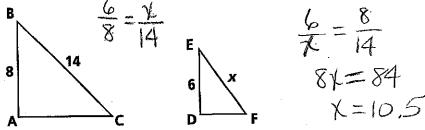
SIMILAR TRIANGLES



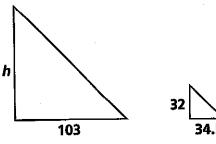
10.5

65.7

13

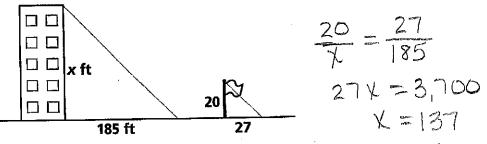


2. The two triangles are similar. Use a proportion to determine the value of h. Round your answer to the nearest tenth.

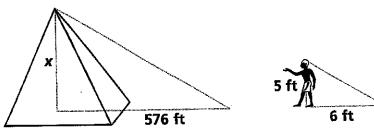


 $\frac{h}{103} = \frac{32}{34.5}$ 34.5h=2,266 h = 65.7

3. If a flagpole is 20 ft tall and casts a shadow of 27 ft, how tall is a building that casts a shadow of 185 ft? Write a proportion and solve. Round your answer to the nearest foot.



480 ft. 4. If an Egyptian man is 5 feet tall and casts a shadow of 6 ft, how tall is a pyramid that casts a shadow of 576 ft? Write a proportion and solve.



Standard 5 / Activity 1 indiana Mathematics Grade 7 Curriculum Framework, October 2002

Black Line Master 1 $\frac{5}{6} = \frac{1}{576}$ 6X= 2,880

page 127