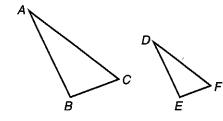
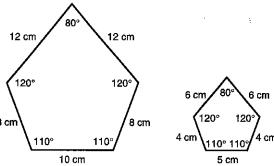
SECTION 5B

SECTION Ready to Go On? Quiz

5-7 Similar Figures and ProportionsUse the similar triangles to the to name the following.

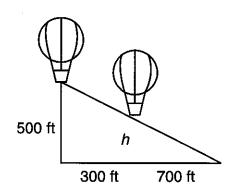
- 1. corresponding side to \overline{AC}
- 2. corresponding side to EF
- 3. corresponding angle to ∠ACB _____
- **4.** corresponding angle to ∠*EDF* _____
- 5. Are the pentagons similar? _____



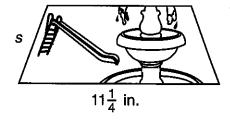


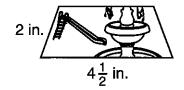
5-8 Using Similar Figures Show Work.

- 6. Araxi has a photo of her cat that is 6 inches by 4 inches. She ordered a copy reduced to a width of 2 inches for her wallet. What is the length of the reduced copy?
- 7. Two hot-air balloons are heading for their landing target, as shown below. How high is the balloon closest to the target?



8. A company sells two trapezoid-shaped jigsaw puzzles with the same picture and the same shape, as shown below. What is the length, *s*, of the side in the larger version of the puzzle?





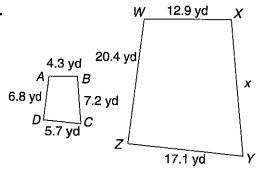
Naı	me D	ate	Class	
	Ready to Go On? Quiz continu	ıed		
	Scale Drawings and Scale Models	Shou	u work.	
	The wingspan of an airplane is 108 feet. On a so model of the airplane, the wingspan is 3 feet. When the scale factor?	cale		
10.	In Angel Stadium, located in Anaheim, California from home plate to the left field wall is 330 ft. WI			
	distance be in a diagram of the field with a scale factor of $\frac{1}{200}$?			
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.			
12.	The blueprint of the Nguyen house is done with a scale factor			
	of $\frac{1}{16}$. If the length of a bedroom measures 8.5 in. on the			
	diagram, what is the approximate length of the a			
13.	What is the exact scale factor of the model of a tiff the distance from end to end of the model is 5 and that same distance on the actual bridge is 12	in.		
14.	A scale model of Tyrannosaurus Rex has a scale	afactor		
	of $\frac{1}{36}$ and a height of 6 inches. How tall would it	the		
	actual dinosaur be?			
	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 measurement for the distance between Dalland El Paso, Texas, which lie 572 miles apart?	l imate		

LESSON Practice C

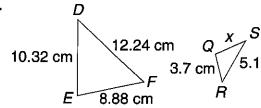
5-8 Using Similar Figures

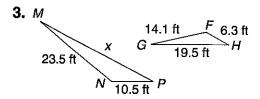
Find the unknown length in each pair of similar figures.

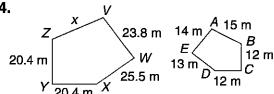
1.



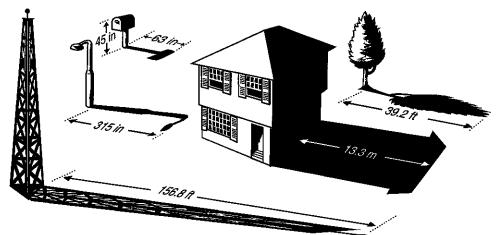
2.







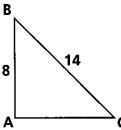
Estimate the height of each object in the picture below.

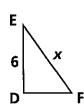


- 5. house _
- **6.** tree __
- **7.** lamppost _____
- 8. radio tower _____

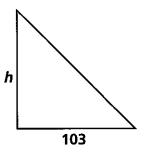
SIMILAR TRIANGLES

1. Triangle ABC is similar to Triangle DEF. Use a proportion to determine the value of x.



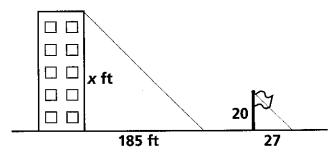


2. The two triangles are similar. Use a proportion to determine the value of *h*. Round your answer to the nearest tenth.





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.



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.

