NAME

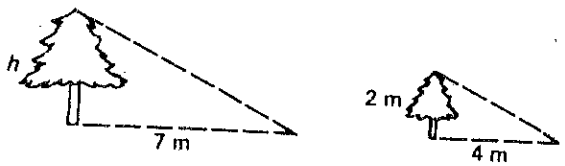
Practice Worksheet 15-2

SKILL PRACTICE

Use after page 427.

In each exercise the triangles are similar.
Solve a proportion to find the length of side h, rounded to the nearest tenth of a meter.

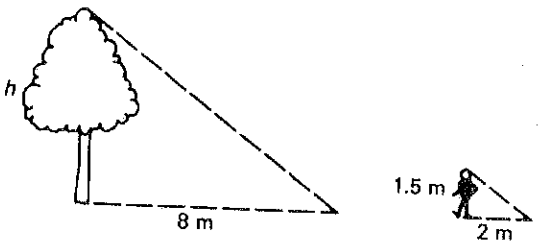
1.



Hint: $\frac{h}{2} = \frac{7}{4}$

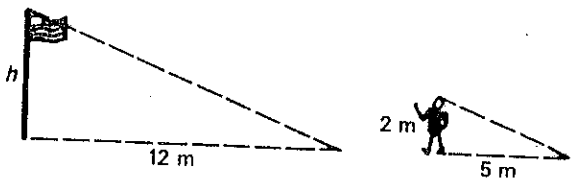
$h =$ _____ m

2.



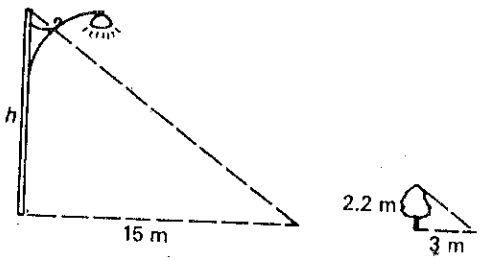
$h =$ _____ m

3.



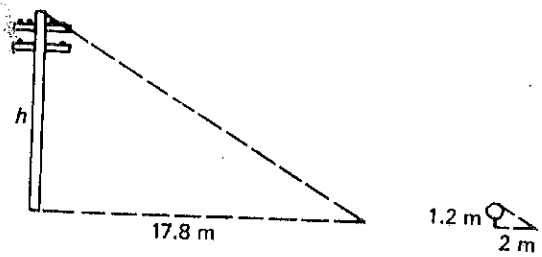
$h =$ _____ m

4.



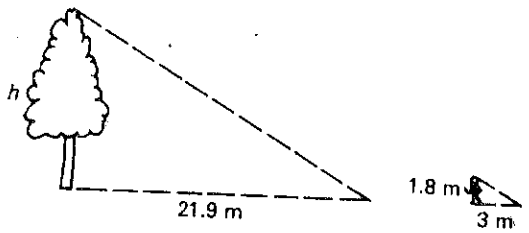
$h =$ _____ m

5.



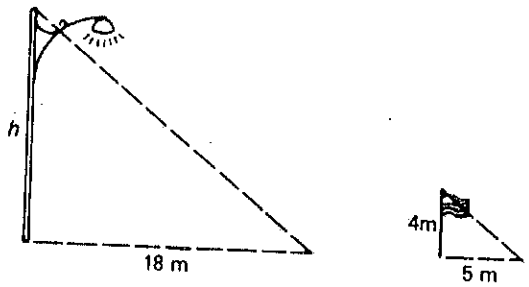
$h =$ _____ m

6.



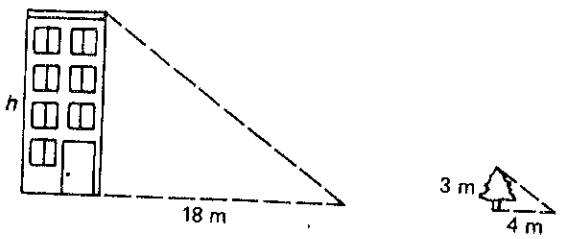
$h =$ _____ m

7.



$h =$ _____ m

8.



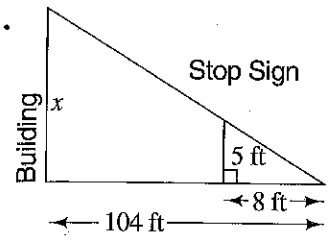
$h =$ _____ m

Name _____ Class _____ Date _____

Practice 6-8 Similarity and Indirect Measurement

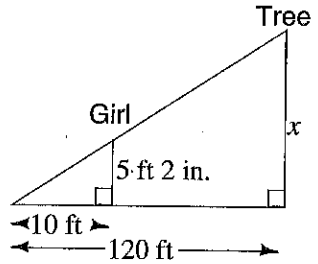
Use the similar triangles to find each unknown distance.

1.



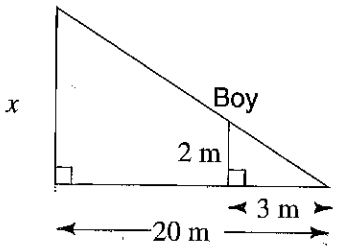
_____

2.



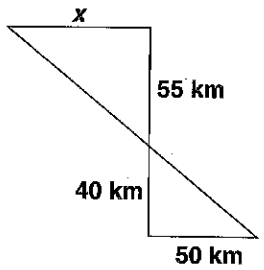
_____

3.



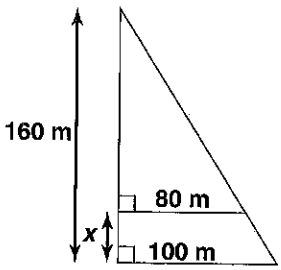
_____

4.



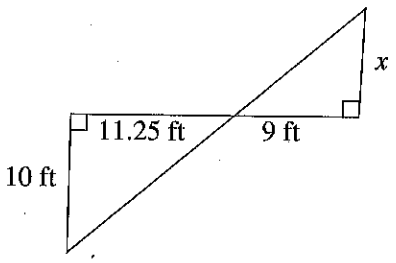
_____

5.



_____

6.



_____

7. An office building 55 ft tall casts a shadow 30 ft long. How tall is a person standing nearby who casts a shadow 3 ft long?

_____

8. A 20-ft pole casts a shadow 12 ft long. How tall is a nearby building that casts a shadow 20 ft long?

_____

9. A fire tower casts a shadow 30 ft long. A nearby tree casts a shadow 8 ft long. How tall is the fire tower if the tree is 20 ft tall?

_____

10. A house casts a shadow 12 m long. A tree in the yard casts a shadow 8 m long. How tall is the tree if the house is 20 m tall?

_____