

Use proportions to solve.

7. How tall is the flagpole?



8. How tall is the flagpole?



9. How tall is the tree?



In the figure below, the scale factor from <u>X:Y is 1:4</u>.

10. Find the length of side GH.

11. Find the length of side FG.

12. Find the length of side BC.



13. Write and solve a proportion using the scale provided on the map to find the actual distance between Hagerstown and Annapolis. The distance on the map is 3½ cm.



14. Write and solve a proportion using the scale provided on the map to find the distance between Clarksville and Little Rock. The distance on the map is 4 cm.



For problems 15 and 16 and the length of each model. Then, find the scale factor. 15. 16.





- 17. A model of a tree is made using a scale of 1 inch = 25 feet. What is the height of the actual tree if the height of the model is $4\frac{3}{8}$ inches?
- 18. A map of Bakersfield has a scale of 1 inch = 5 miles. If the city measures $5\frac{1}{5}$ inches on the map, what is the actual distance of the city?