Lesson 17: The Unit Rate as the Scale Factor

Problem Set

1. Giovanni went to Los Angeles, California, for the summer to visit his cousins. He used a map of bus routes to get from the airport to his cousin’s house. The distance from the airport to his cousin’s house is . On his map, the distance is . What is the scale factor?
2. Nicole is running for school president. Her best friend designed her campaign poster, which measured feet by feet. Nicole liked the poster so much, she reproduced the artwork on rectangular buttons that measured inches by inches. What is the scale factor?
3. Find the scale factor using the given scale drawings and measurements below.

Scale Factor: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

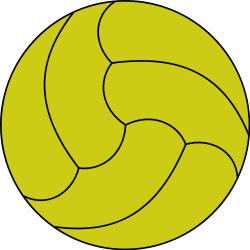
Actual Picture Scale Drawing

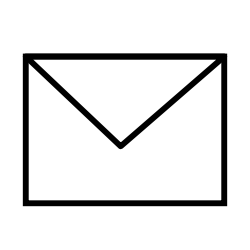


1. Find the scale factor using the given scale drawings and measurements below.

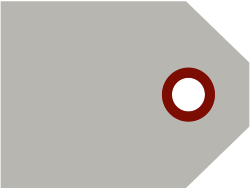
Scale Factor: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Actual Picture Scale Drawing



1. Using the given scale factor, create a scale drawing from the actual pictures in inches:
   1. Scale factor:

* 1. Scale factor:



1. Hayden likes building radio-controlled sailboats with her father. One of the sails, shaped like a right triangle, has side lengths measuring inches, inches, and inches. To log her activity, Hayden creates and collects drawings of all the boats she and her father built together. Using the scale factor of , create a scale drawing of the sail.