Scale Diagrams

Terms to Know

scale - a comparison between the actual size of an object and the size of its diagram

- can be expressed as a ratio, as a fraction, as a percent, in words, or in a diagram

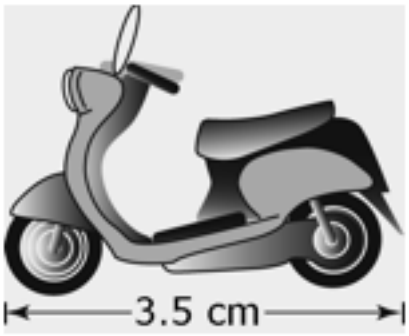
- scale = $\frac{\text{diagram measurement}}{\text{actual measurement}}$

scale diagram - a drawing that is similar to the actual figure or object

- may be smaller or larger than the actual object, but must be in the same proportions

Example 1

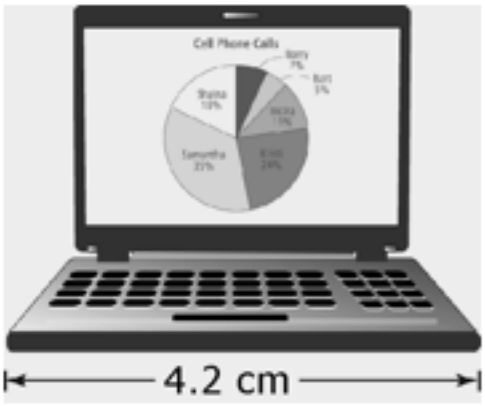
The scale diagram of a scooter is 1:20. What is the actual length of the scooter?



Outcomes: SS4 - Draw and interpret scale diagrams of 2-D shapes
SS3 - Demonstrate an understanding of similarity of polygons

Example 2

An actual laptop has a width of 39.5 cm. Calculate the scale factor used in the image. Express the answer to the nearest tenth.



Practice the following: **Required - Page 143 #7 - 12**

Optional (challenge yourself!!!) - Page 144 #13, 14, 18

Outcomes: SS4 - Draw and interpret scale diagrams of 2-D shapes
SS3 - Demonstrate an understanding of similarity of polygons