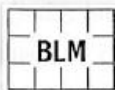


Activity 11.7 SCALE DRAWINGS

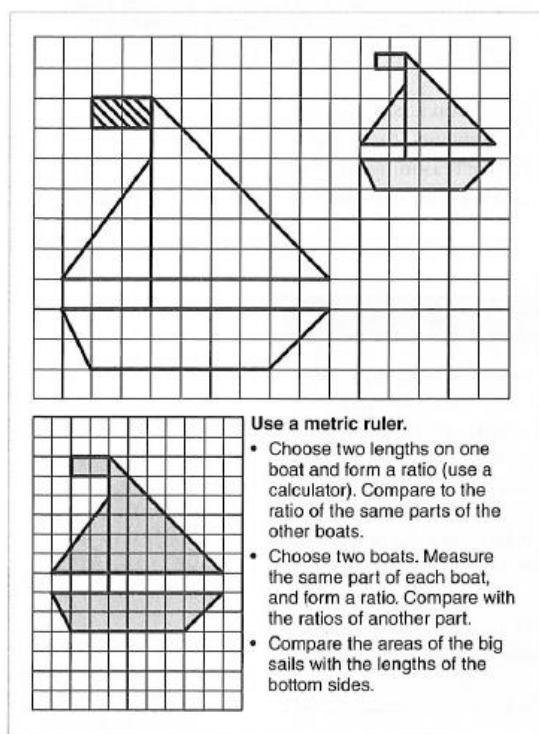


On grid or dot paper (see Blackline Masters 1–5), have students use straight lines with vertices on the dots to draw a simple shape. After one shape is complete, have them draw a “scaled” drawing—a larger or smaller shape that looks similar to the first. With ELLs, be sure the term *scale* is understood, so that they don’t confuse this use of the word with a machine that weighs things or what fish have. This can be done on a grid of the same size or a different size, as shown in Figure 11.8. First, compare ratios within (see the first problem in Figure 11.8). Then compare ratios between the figures (see the second problem in Figure 11.8).

Corresponding sides from one figure to the next should all be in the same ratio. The ratio of two sides within one figure should be the same as the ratio of the corresponding two sides in another figure.

Figure 11.8

Comparing similar figures drawn on grids.



From Van de Walle et. al. (2014). *Teaching Student-Centered Mathematics Grades: Developmentally Appropriate Instruction for Grades 6 – 8* (2nd Ed.). Toronto: Pearson Education, Inc. (p. 209-210).