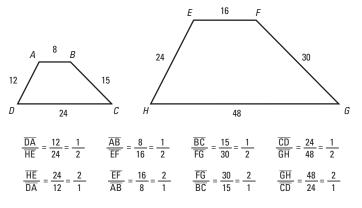
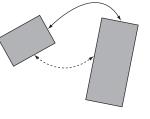
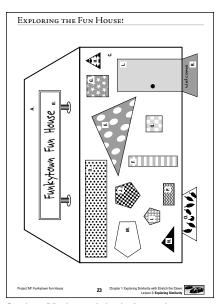
NOTES



Students will measure doors, windows, and other features of the Funkytown Fun House in order to discover the relationship described above between corresponding sides in similar figures. Have students turn to "Exploring the Fun House!" and go over the directions with the class. Review the fact that corresponding angles in similar figures are congruent. Emphasize that in this activity, students are to examine corresponding sides. Their goal is to discover what relationships exist among sides of similar figures. This lesson is discovery-based, so do not tell students that all corresponding sides are related by the same ratio. Let them follow the directions and work through each problem. You may want to make sure students can identify corresponding sides (e.g., use the roof and the bush that are both shaped as trapezoids) prior to setting them to work. Remind students to measure carefully using centimeters and to record their data.

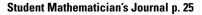
It is important that students use evidence in the form of measurements to determine what it means for two figures to be similar. Some students will base their decisions on visual cues — "these figures are similar because they look alike, like the miniature cars." Explain that they can use their intuitive sense of similarity as a beginning but that mathematicians need hard evidence in the form of actual numbers (from measurements) in order to convince others. In addition, some students will confuse which sides correspond to each other. Suggest that they connect the corresponding sides between figures using lines. Also have students label the vertices, particularly of the triangles, to allow them to





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	nt Mathematician:		Date:
Expl	loring the Fun House!		
want	sure the shapes on the Funkytows to make a table to help you orga tions.		
1.	There are six different pairs of si previous page. List the shapes th		nkytown Fun House on the
2.	For each pair of similar shapes, distinct corresponding sides. So sides, so you will have two ratios distinct side lengths, and you wi distinct side lengths.	me figures, like a rectan s. Other figures will hav	gle, have only two distinct ve a different number of
3.	Examine the ratios for each figu	ire. What relationships	do you notice? Explain.
			nilarity with Stratch the Clown



sides by name.

refer to the corresponding