

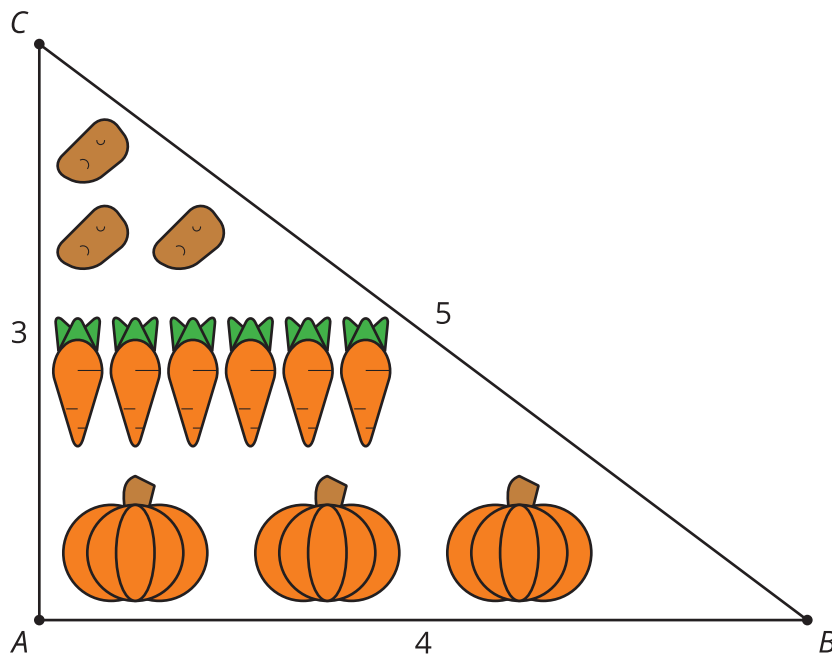
Unit 3 Lesson 12: Practice With Proportional Relationships

1 Vegetable Garden (Warm up)

Student Task Statement

These are the plans for a vegetable garden that a school is designing.

Scale: 1 unit = 2.8 ft



Write at least 3 equivalent ratios or equations using lengths from both the diagram and the full-size garden.

2 Card Sort: Corresponding Parts (Optional)

Student Task Statement

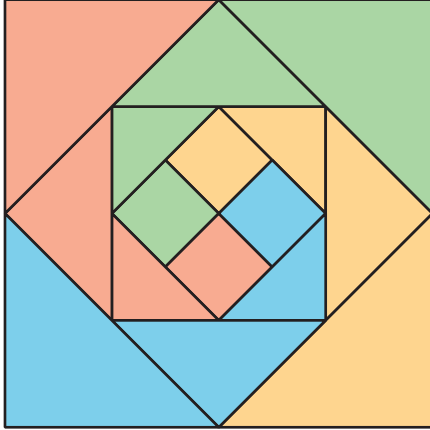
Your teacher will give you a set of cards. Group them into pairs of similar figures. For each pair, determine:

1. a similarity statement
2. the scale factor between the similar figures
3. the missing lengths

3 Quilting Questions (Optional)

Student Task Statement

1. Here is a quilt design made of right isosceles triangles. The smallest squares in the center have an area of 1 square unit. Find the dimensions of the triangles.



2. Are the triangles similar? If so, what are the scale factors?
3. This quilt is meant for a baby (1 unit = 6 inches). To make a quilt for a queen-size bed, it needs to be 90 inches wide. What dimensions should the center squares of the big quilt have to reach that width?

Images for Activity Synthesis

$$\angle Y \cong \angle W, \overline{JD} \perp \overline{DY}, \overline{BL} \perp \overline{BW}$$

