# Answer Key • Lesson 4: Building with Triangles



Student Guide - Page 307



Student Guide - Page 308

## **Student Guide**

## Building with Triangles (SG pp. 307–309) Questions 1–9

- I. 3 sides
- **2.** 3 vertices
- **3.** 1 square corner or right angle
- **4.** Two lines of symmetry



**5.** Students move triangles as directed.

## Answer Key • Lesson 4: Building with Triangles

6.*	Sketch of Shape	No. of Sides	No. of Vertices	No. of Right Angles	No. of Lines of Symmetry
		4	4	4	4
		3	3	1	1
	$\square$	4	4	0	0

**7.\*** Answers will vary. May include the fact that the number of vertices always equals the number of sides.

8.*	Sketch of Shape	No. of Sides	No. of Vertices	No. of Right Angles	No. of Lines of Symmetry
		4	4	2	0
		5	5	1	0
		4	4	0	1
		5	5	2	1

9.\* Answers will vary.

#### Building with Two Triangles

- Find all the different shapes you can make by putting two triangles together edge to edge. Complete the Building with Two Triangles table in your Student Activity Book:
  - A. Sketch the outline of each shape in the table.
  - **B.** Count the sides, vertices, and right angles of each shape and record the numbers in the table.
  - record the numbers in the table.C. Find all lines of symmetry for each shape. Draw them on your shape and write the number in the table. Follow the example.



7. Find and describe at least one pattern in your table.

#### **Building with Three Triangles**

8.	Find all the shapes that can be made by putting three triangles together edge to edge. Complete the Building with Three Triangles t in your Student Activity Book. Follow the steps in 6A–6C.
9.	Find and describe a pattern in your new table.

Student Guide - Page 309