

**Grade 5 Unit 4**

Lesson 9

CC BY 2021 Illustrative Mathematics®

**Unit 4 Lesson 9: The Birds**

**WU Notice and Wonder: For the Birds (Warm up)**

Student Task Statement

What do you notice? What do you wonder?



---

## 1 Home is Where the Bird Lives

### Student Task Statement

Different types of birds use different types of houses. The table gives you the recommended side lengths for birdhouses of various species.

type of bird	side lengths of floor	height	volume estimate
chickadee	4 in by 4 in	6 to 10 in	
wood duck	10 in by 18 in	10 to 24 in	
barn owl	10 in by 18 in	15 to 18 in	
red-headed woodpecker	6 in by 6 in	12 to 15 in	
bluebird	5 in by 5 in	6 to 12 in	
swallow	6 in by 6 in	6 to 8 in	

Estimate a possible volume for each birdhouse. Be prepared to explain your reasoning.

## 2 What is the Volume?

### Student Task Statement

Use the criteria from the table to determine the recommended range of volumes for each type of birdhouse.

type of bird	side lengths of floor	height	range of volume
chickadee	4 in by 4 in	6 to 10 in	
wood duck	10 in by 18 in	10 to 24 in	
barn owl	10 in by 18 in	15 to 18 in	
red-headed woodpecker	6 in by 6 in	12 to 15 in	
bluebird	5 in by 5 in	6 to 12 in	
swallow	6 in by 6 in	6 to 8 in	