## Answer Key • Lesson 9: Measuring Volume of Solid Objects

#### **Student Guide**

<b>Measuring Volume</b>	of Solid Objects
(SG p. 409)	
Question 1	
	<b>D</b>

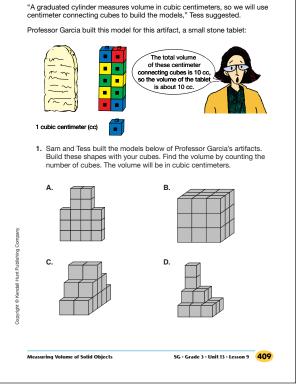
<b>I. A.</b> 16 cc	<b>B.*</b> 27 cc
<b>C.</b> 18 cc	<b>D.</b> 15 cc

# Homework (SG pp. 411–412) Questions 1–4

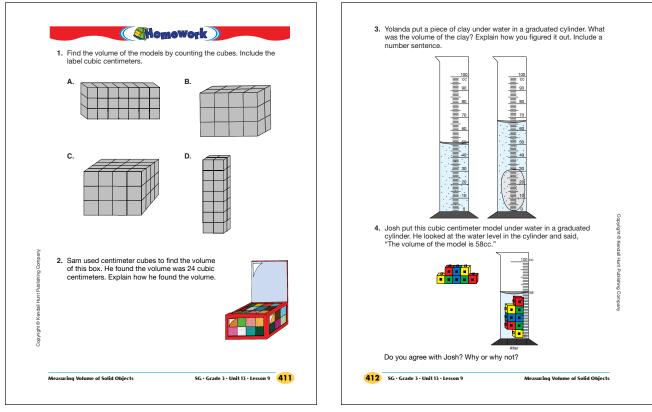
- **I. A.** 21 cc
  - **B.** 24 cc
  - **C.** 48 cc
  - **D.** 28 cc

Explanations will vary. Possible response:
1 layer is 4 cubes by 3 cubes. That is 12 cubes.
There are 2 layers.
12 cubes + 12 cubes = 24 cc.

- **3.** 16 cc. The water level started at 50 cc and rose to 66 cc, so the volume of the clay is 16 cc. 66 cc 50 cc = 16 cc.
- **4.** Josh is not correct. He read the volume of the water and the model. The volume of the model is 8 cc.







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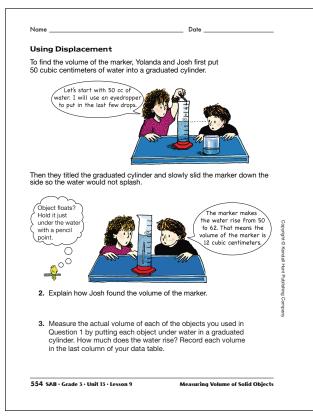
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\*Answers and/or discussion are included in the lesson.

		Measures V Displaceme	
Es	stimating Volume		
cer	landa estimated the volum ntimeter connecting cubes lume was about 14 cubic c	. She counted the cube	
			0
	connecting cubes as sl in the data table. Yolan		
	Volu O Object	Estimated Volume	V Volume by Displacement
hund	0	E	
ng Company	O Object	E Estimated Volume from Cube Model	Volume by Displacement
Publishing Company	O Object	E Estimated Volume from Cube Model	Volume by Displacement
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\*Answers and/or discussion are included in the lesson.

## Student Activity Book

### Yolanda Measures Volume by Displacement (SAB pp. 553–554) Questions 1–3

- 1.\* Items' estimated volumes will vary. See Figure 2 in the lesson for a sample data table.
- **2.\*** Possible response: The water level started at 50 cc. Josh slid the marker into the cylinder and the marker pushed the water level up to 62 cc. The marker displaced its volume in the water. 62cc 50cc = 12 cc. The marker's volume is 12 cc.
- **3.**\* Items' actual volumes will vary. See Figure 2 in the lesson for a sample data table.