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

TG · Grade 5 · Unit 4 · Lesson 7 · Answer Key

Student Guide

Problem Solving with Volume (SG pp. 195–197) Questions 1–8

1.* Shapes will vary but each must have a volume of 12 cm³. One sample shape:



- **2. A.** 5 cm^3
 - **B.** 5 cm
- **3.** 10 cm^3
- **4.** 30 cm^3

Answer Key • Lesson 7: Problem Solving with Volume

- **5. A.*** 3
 - **B.*** 3
 - **C.*** 9 cm³
 - **D.*** 4
 - **E.*** 36 cm³
- **6.*** 12 cubes
- **7. A.*** 12 cm³
 - **B.*** 60 cm³
- **8.** Boxes will vary but should have a volume of 60 cm³. One sample box:

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Homework Section (SG pp. 198–199) Questions 1–5

- **1.** 576 ft.³
- **2.** 48 cm³
- **3.** 864 m³
- **4.** 7280 in.³
- **5. A.** 126 cm³
 - **B.** 5 cm
 - **C.** 10 cm
 - **D.** 3 cm
 - **E.** 1872 cm³
 - **F.** 5 × 4 × 10 = 200
 - **G.** 210 cm³ is a reasonable estimate. The numbers are close to $5 \times 4 \times 10 = 200$.