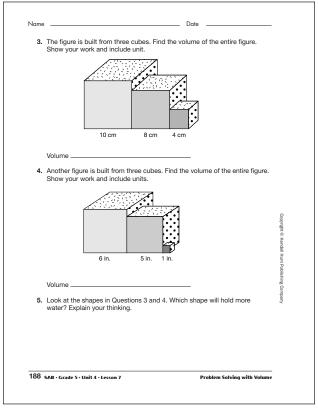
**4.**  $342 \text{ in}^3$ ;  $6^3 + 5^3 + 1^3$ 

**5.** Possible response: The shape in Question 4. The boxes are a lot larger than those in Question 3.

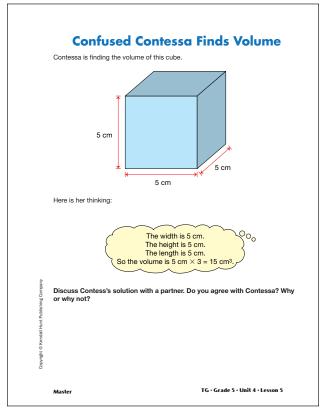


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## **Teacher Guide**

## **Confused Contessa Finds Volume (TG)**

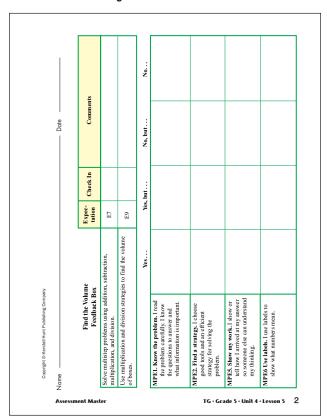
\* Contessa is incorrect. To find the volume of a 5 cm cube, she incorrectly multiplies  $\times$  3, but that is not the same as  $5 \times 5 \times 5$ .



Teacher Guide

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

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# Find the Volume (TG p. 1–2) Questions 1–2

- 1.\* 14 cm; Possible response: Both boxes have the same volume. Box A is 20 cm × 7 cm × 18 cm = 2520 cm<sup>3</sup>. Box B has a length of 15 cm and a width of 12 cm. 15 cm × 12 cm = 180 cm<sup>2</sup>. To find the height, I divided the volume, 2520 cm<sup>3</sup> by 180 cm<sup>2</sup> and got 14 cm.
- 2.\* 288 cm<sup>3</sup>; Possible response:

Volume of largest cube:

 $6 \text{ cm} \times 6 \text{ cm} \times 6 \text{ cm} = 216 \text{ cm}^3$ 

Volume of smallest cube:

 $2 \text{ cm} \times 2 \text{ cm} \times 2 \text{ cm} = 8 \text{ cm}^3$ 

To find the length of the medium cube:

12 cm - 6 cm - 2 cm = 4 cm

Volume of the medium cube:

 $4 \text{ cm} \times 4 \text{ cm} \times 4 \text{ cm} = 64 \text{ cm}^3$ 

Volume of the shape:

 $216 \text{ cm}^3 + 8 \text{ cm}^3 + 64 \text{ cm}^3 = 288 \text{ cm}^3$ 

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