Date:

BLM 7-13

6 m

4 cm

6 cm

3 m

Chapter 7 Test

For #1 to #5, choose the best answer.

- **1.** Which units can be used to express volume?**A** cm²**B** dm²**C** km³**D** m
- **2.** What is the volume of a right prism with a base area of 4.6 cm² and a height of 9.3 cm?

A 13.9 cm³ **B** 18.5 cm³ **C** 21.39 cm³ **D** 42.78 cm³

- 3. What is the volume of this right cylinder?
 - **A** 113.04 m³ **B** 169.56 m³ **C** 339.12 m³ **D** 678.24 m³
- 4. What is the height of a triangular prism with a volume of 96 cm³ and this triangular base?
 - **A** 4 cm **B** 6 cm
 - **C** 8 cm
 - **D** 16 cm
- **5.** What is the volume of a cube with an edge length of 2.3 m?

A 12.2 m ³ B 24.3 m ³	C 36.5 m ³	D 48.7 m ³
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Short Answer

- 6. Calculate
 - **a)** the area of the base of a rectangular prism with a triangle height of 8 m and a triangle base of 2 m
 - b) the volume of a right cylinder with a radius of 6 mm and a height of 5 mm
 - c) the volume of a cube with an edge length of 6 cm
 - d) the volume of a right rectangular prism with dimensions 8.1 cm \times 5.3 cm \times 10 cm
 - e) the area of the base of a right cylinder with a radius of 5 m
 - **f)** the height of a cube with a volume of 343 cm^3 and a base area of 49 cm^2
 - **g)** the area of the base of a right triangular prism with a volume of 392.7 $\rm km^3$ and a height of 8.5 km

