

7.2

Volume of a Prism

MathLinks 8, pages 254–261

Key Ideas Review

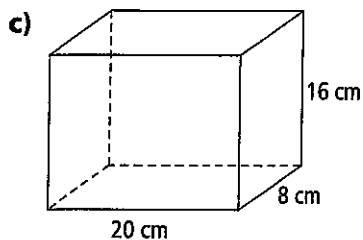
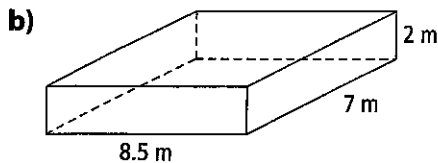
Draw a line to connect each object from column B with the correct formula in column A.

A	B
1. $V = l \times w \times h$	a) Cube
2. $V = (b \times h \div 2) \times h$	b) Right rectangular prism
3. $V = s \times s \times s$	c) Right triangular prism

Practise and Apply

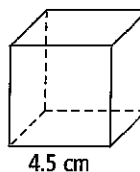
4. Calculate the volume of each rectangular prism.

a) $l = 15 \text{ cm}, w = 12 \text{ cm}, h = 3 \text{ cm}$



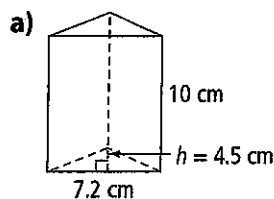
5. Calculate the volume of each cube.

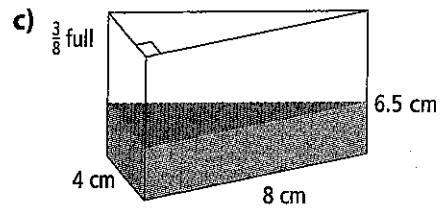
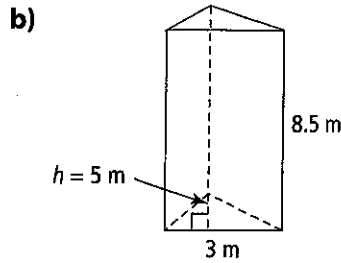
a) Express your answer to the nearest tenth.



b) $s = 7 \text{ cm}$

6. Calculate the volume of each right triangular prism. Express your answer to the nearest tenth.

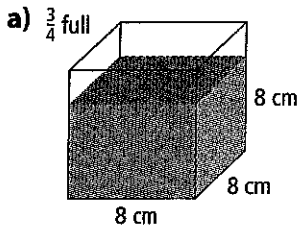
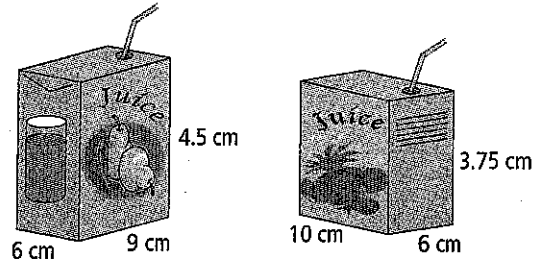




c) A prism where the base of the triangle is 4 m, the height of the triangle is 5 m, and the prism height is 12 m.

8. Wab needs to buy drinks for the summer barbeque. Both containers are the same price. Which one holds more? Show your thinking.

7. Calculate the volume of the contents of each container.



9. A contractor is buying cement for 100 triangular parking barriers. How much concrete does she need?

