

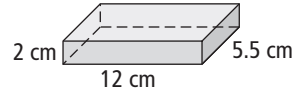
7 Practice Test

$V = \text{area of base} \times \text{height of prism}$
 Volume of rectangular prism: $V = l \times w \times h$
 Volume of triangular prism: $V = (b \times h \div 2) \times h$
 Volume of a cube: $V = s^3$ or $V = s \times s \times s$

For #1 to #3, choose the correct answer.

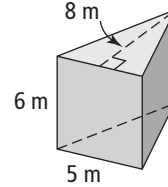
1. What is the volume of the right rectangular prism?

- A 101 cm^3
- B 126 cm^3
- C 132 cm^3
- D 144 cm^3



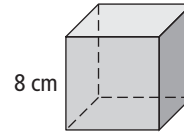
2. What is the volume of the right triangular prism?

- A 120 m^3
- B 180 m^3
- C 240 m^3
- D 480 m^3



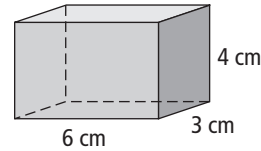
3. What is the volume of the cube?

- A 64 cm^3
- B 72 cm^3
- C 384 cm^3
- D 512 cm^3



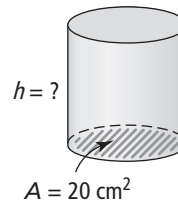
Complete the statements in #4 and #5.

4. A right rectangular prism is 3 cm by 4 cm by 6 cm.



The volume of the prism is _____.

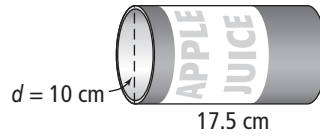
5. The area of the base of a right cylinder is 20 cm^2 .
The volume of the cylinder is 60 cm^3 .
What is the height?



The height of the cylinder is _____.

Short Answer

6. Ian knocked over a full can of apple juice.
What volume of juice did he spill?



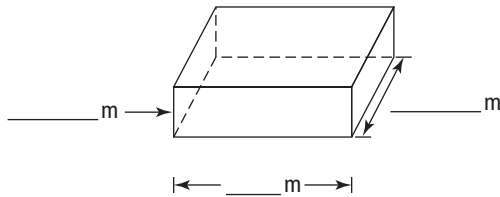
$$V = \pi \times r^2 \times h$$

Sentence: _____

7. Yuri is building a square concrete patio that is 6 m wide, 6 m long, and 0.15 m high.

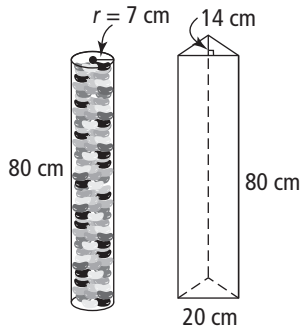
a) What volume of concrete will he need?

b) Concrete costs \$100.00/m³.
How much will it cost to make the patio?
Do not include taxes.



$$\text{Volume of concrete} \times \text{cost of } 1 \text{ m}^3$$

8. Which container holds more jelly beans?



Cylinders and triangular prisms have different volume formulas.

← Formula →

← Substitute →

← Solve →

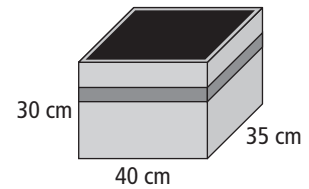
Sentence: _____

Name: _____

Date: _____

9. Every classroom in a school has a recycling bin for paper.

a) What volume of paper can each bin hold?



Each bin holds _____ of paper.

b) If there are 14 classrooms in the school, how much paper can be collected in total?

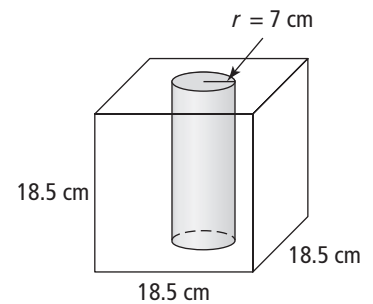
Altogether, the 14 bins can hold _____ of paper.

10. Tiki is making a cube-shaped candleholder.

The candle fits in a hollow cylinder inside the cube.

How much material will she need to make the candleholder?

Volume of cube:



Volume of cylinder:

Volume of candleholder:

The amount of material needed to make the candleholder is _____.