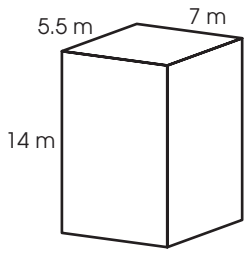
Math

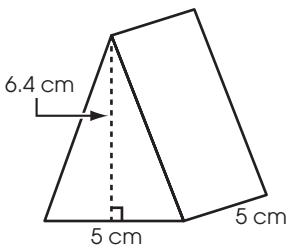
- **volume of prisms**

A. Find the volume of each prism.

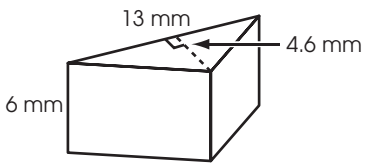
1.



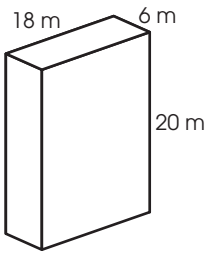
2.



3.

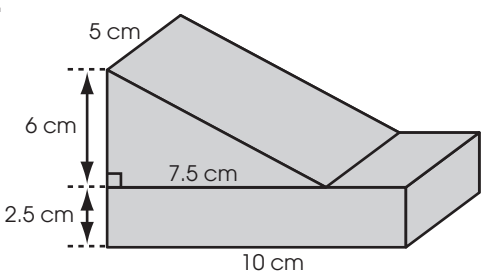


4.

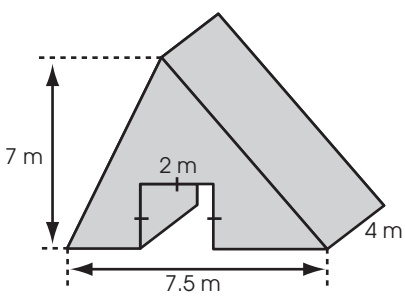


B. Find the volume. Show your work.

1.

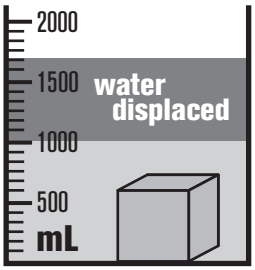


2.

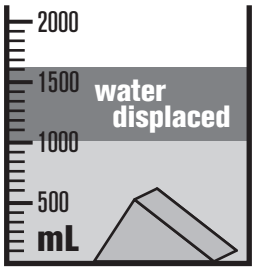


C. Look at the amount of water displaced. Then find the missing measure of each prism.

A



B



A **length:** 10 cm **width:** 10 cm

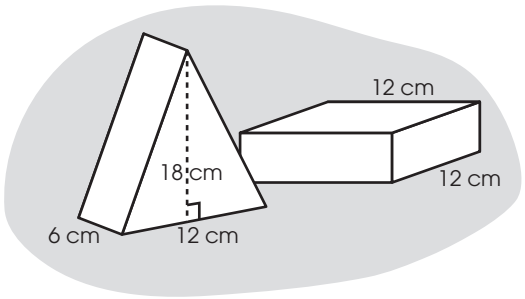
height: _____

B **base:** 20 cm **height:** 12 cm

thickness: _____

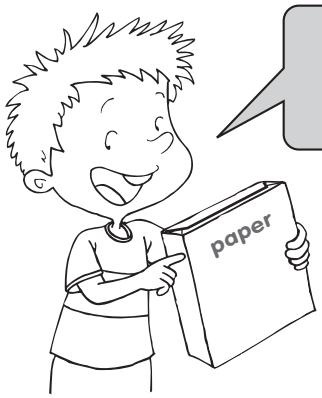
D. Solve the problems.

1. The prisms have the same volume. What is the height of the rectangular prism?



_____

2.



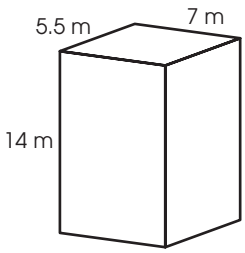
There are 500 pieces of 22 cm x 27 cm paper in this pack. The pack has a height of 7 cm. What is its volume?

_____

- volume of prisms

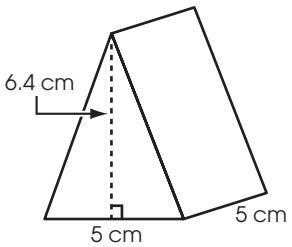
A. Find the volume of each prism.

1.



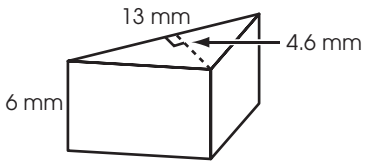
539 m^3

2.



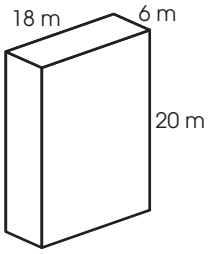
80 cm^3

3.



179.4 mm^3

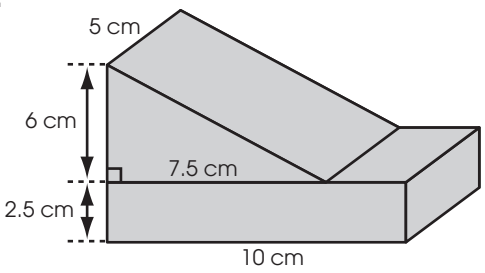
4.



2160 m^3

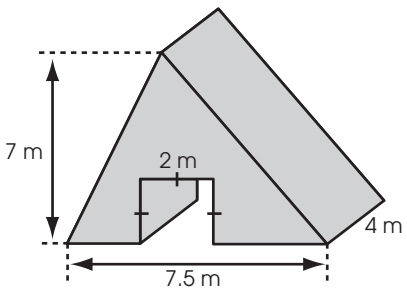
B. Find the volume. Show your work.

1.



$6 \times 7.5 \div 2 \times 5 + 2.5 \times 10 \times 5$
$= 112.5 + 125$
$= 237.5\ (cm^3)$

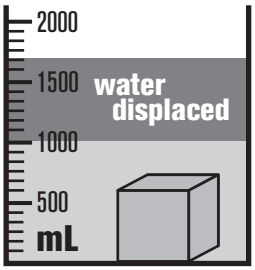
2.



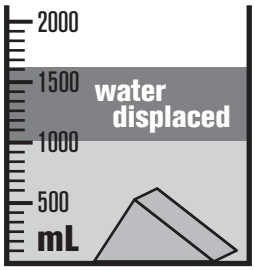
$7.5 \times 7 \div 2 \times 4 - 2 \times 2 \times 4$
$= 105 - 16$
$= 89\ (m^3)$

C. Look at the amount of water displaced. Then find the missing measure of each prism.

A



B



A **length:** 10 cm **width:** 10 cm

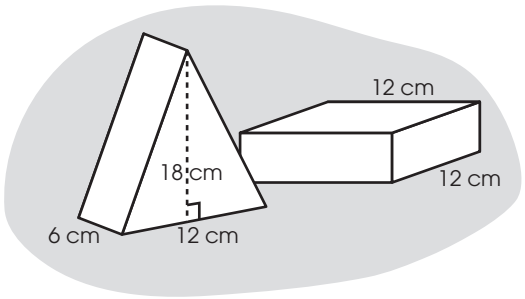
height: 7 cm

B **base:** 20 cm **height:** 12 cm

thickness: 5 cm

D. Solve the problems.

1. The prisms have the same volume. What is the height of the rectangular prism?

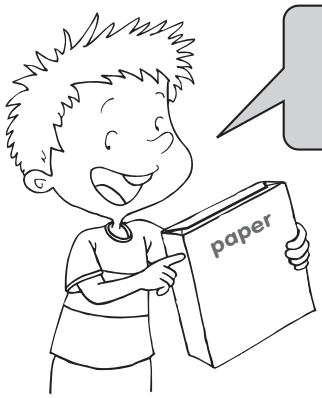


Volume: $12 \times 18 \div 2 \times 6 = 648$ (cm^3)

Height: $648 \div 12 \div 12 = 4.5$ (cm)

The height of the rectangular prism is 4.5 cm.

2.



There are 500 pieces of 22 cm x 27 cm paper in this pack. The pack has a height of 7 cm. What is its volume?

$22 \times 27 \times 7 = 4158$ (cm^3)

The volume is 4158 cm^3.