



The National
Orthodox School
Shmaisani

Name:

Worksheet(2) volume of prisms and cylinders

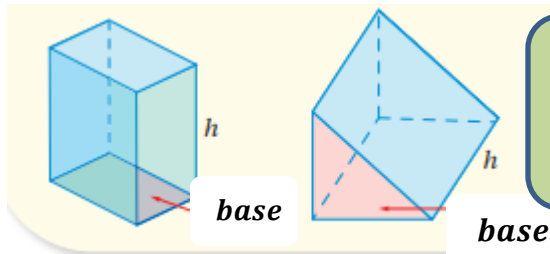
Grade:8(A, B)

Subject : Math (Unit (7):Mensuration of planes and solids)

Date :

Objective: Find the volume of prisms and cylinders

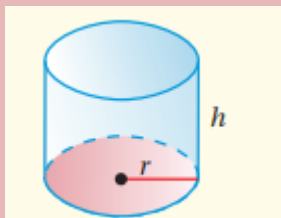
*volume of the prism = area of the **base** × height(h)*



*= (area of **cross – section**) × height(h)*

volume of the cylinder = area of the base × height(h)

*= area of **cross – section** × height(h)*



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

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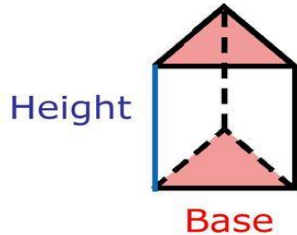
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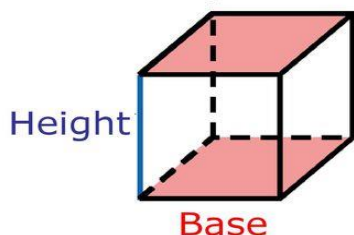
معتمدة من

8-5 Volume of Prisms and Cylinders

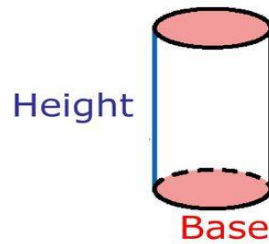
Triangular prism



Rectangular prism



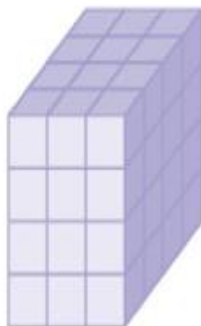
Cylinder



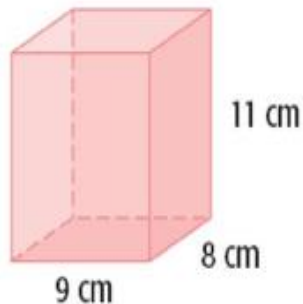
Exercise 1:

Find how many cubes the prism holds. Then give the prism's volume.

1.

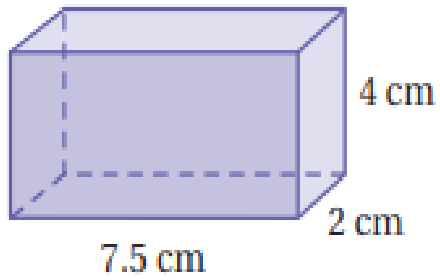


2.

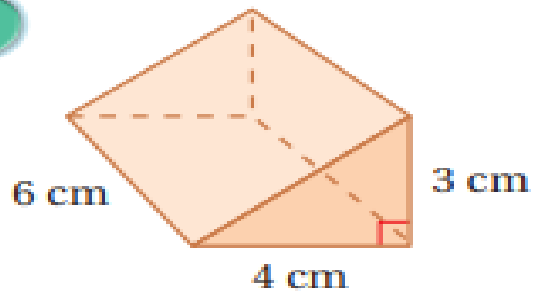


Exercise 2: find the volume of the following solids:

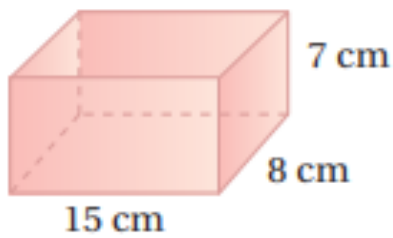
1



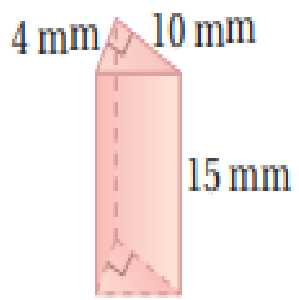
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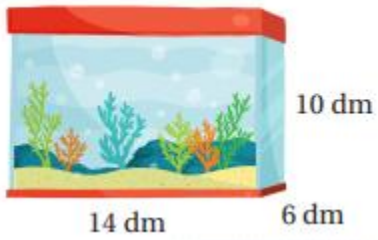
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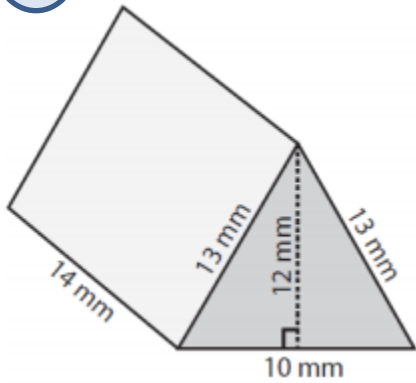
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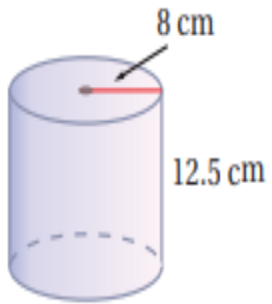
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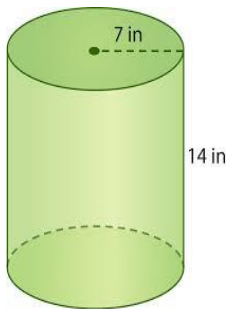
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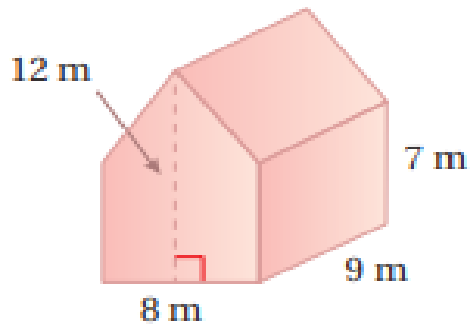
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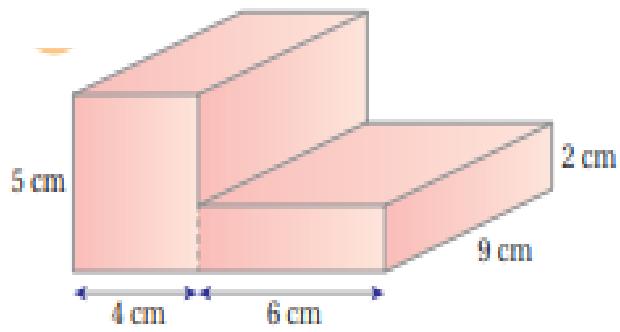
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9

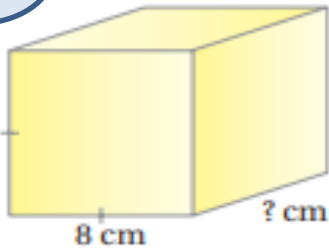


10



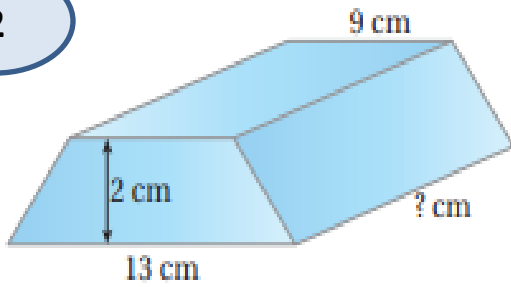
Exercise (3): find the missing dimension in each of the following prisms:

1



$$V = 608 \text{ cm}^3$$

2



$$V = 110 \text{ cm}^3$$

Exercise (4): calculate the missing values in the table for each of the four prisms below :

<i>Area of cross – section (cm^2)</i>	<i>Height (cm)</i>	<i>Volume of prisms (cm^3)</i>
12	3	
78		702
12		14.4
	5.6	78.4

Teacher: Wisam Al – mashn