Math 9 Adapted LG 6

Expectation 1 – Calculating the Volume of a Rectangular Prism









Expectation 2 - Calculating the Volume of a Triangular Prism

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Area of triangle = base x height \div 2 Area of triangle = $3 \text{ cm x} 8 \text{ cm} \div 2 = 12 \text{ cm}^2$ 8cm10cmVolume = $12 \text{ cm}^2 \text{ x} 10 \text{ cm}$ 3cm= 120 cm³ 1) 2) 3) 15 cm 4 m 5 mm 12 mm П 11 m Ы 2 cm 7 mm 13 cm Triangle area = Triangle area = Triangle area = Volume = Volume = Volume = 4) 5) 6) 8 10 m 20 cm 17 m 14 cm <u>日</u> 9 mm 19 mm Triangle area = Triangle area = Triangle area = Volume = Volume = Volume =

Volume by calculating base area of the triangle, then multiplying the length.



Expectation 3 - Calculating Volume of a Cylinder



Calculate the volume of the cylinders.

4) height = 9 cm ; radius = 3 cm

5) radius = 13 m; height = 8 m

Volume = _____

Volume = _____



Calculate the volume of the 3D objects below.

7) The radius and height of a cylinder are 21 m and 5 m respectively. What is the volume of the cylinder? (use $\pi = 3.14$)

8) The base of a prism is a right triangle with legs measuring 3 cm and 4 cm. If the height of the prism is 13 cm, determine its volume.