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1. Which figure is NOT three-dimensional?
[A] triangular prism
[B] cube
[C] cylinder
[D] circle
2. Find the volume of a cube 5 meters on each side.
[A] $30 \mathrm{~m}^{3}$
[B] $25 \mathrm{~m}^{3}$
[C] $133 \mathrm{~m}^{3}$
[D] $125 \mathrm{~m}^{3}$
3. Find the volume of the rectangular prism as shown...
[A] $54 \mathrm{~cm}^{3}$
[B] $60.8 \mathrm{~cm}^{3}$
[C] $55.8 \mathrm{~cm}^{3}$
[D] $61.8 \mathrm{~cm}^{3}$

5 cm
4. Find the volume of a cone that has a radius of 5 cm and a height of 29 cm .
[A] $2277.7 \mathrm{~cm}^{3}$
[B] $9110.6 \mathrm{~cm}^{3}$
[C] $759.2 \mathrm{~cm}^{3}$
[D] $3036.9 \mathrm{~cm}^{3}$
5. The volume of a cylindrical can is $169.6 \mathrm{~cm}^{3}$. If the radius is 3 cm , find the height of the can.
[A] 6.0 cm
[B] 1.5 cm
[C] 18.0 cm
[D] 3.0 cm
6. Find the surface area of the given cylinder to the nearest square unit.
[A] $35 \mathrm{~m}^{2}$
[B] $161 \mathrm{~m}^{2}$
[C] $51 \mathrm{~m}^{2}$
[D] $322 \mathrm{~m}^{2}$

7. Calculate the surface area of the right triangular prism as shown...
[A] $990 \mathrm{~m}^{2}$
[B] $1116 \mathrm{~m}^{2}$
[C] $1512 \mathrm{~m}^{2}$
[D] $3024 \mathrm{~m}^{2}$
9 m

8. Determine the volume of this composite object, which is a right square prism and a right rectangular pyramid, to the nearest tenth of a cubic metre.
[A] $85.3 \mathrm{~m}^{3}$
[B] $107.7 \mathrm{~m}^{3}$
[C] $90.7 \mathrm{~m}^{3}$
[D] $514.8 \mathrm{~m}^{3}$

9. What is the surface area of a box with no lid that is 75 cm long, 0.4 m wide, and 200 mm high?
[A] $7600 \mathrm{~cm}^{2}$
[B] $10600 \mathrm{~cm}^{2}$
[C] $30220 \mathrm{~cm}^{2}$
[D] $5700 \mathrm{~cm}^{2}$
10. Convert the following...
$42 \mathrm{ft}^{2}=$ $\qquad$ $\mathrm{m}^{2}$
[A] $3.9 \mathrm{~m}^{2}$
[B] $4.3 \mathrm{~m}^{2}$
[C] $5.6 \mathrm{~m}^{2}$
[D] $12.8 \mathrm{~m}^{2}$
a)

b)


Surface Area = $\qquad$ Volume $=$ $\qquad$

$\qquad$
$\qquad$
2. A fire extinguisher is in the form of a cylinder with a conical top as shown...
a) Determine the volume of chemical that this extinguisher will hold.

b) How many litres of chemical does this extinguisher contain?
3. Mr. Bean purchases a cone of ice cream which has a radius of 2 inches and a height of 4.5 inches. How much ice cream will he get if the inside of the cone is filled and the top of the cone is the shape of a hemisphere?

4. The Alaska Pipeline, finished in 1977, was created to move oil from the North Slope Oil Fields to the ice-free port of Valdez, Alaska. It is 800 miles long and 4 feet in diameter.
a) What is the volume of oil in cubic feet contained in the pipeline?

