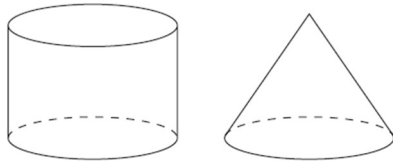




The following problems were created and released by the Education Quality and Accountability Office (EQAO). They appeared on past EQAO assessments. Visit eqao.com for more information and resources.

MULTIPLE CHOICE PROBLEMS

- 1** The cylinder and the cone shown below have the same height and radius.

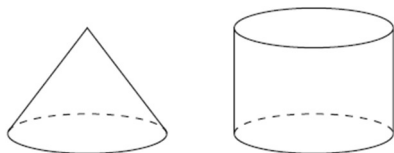


Volume of cylinder = ? × Volume of cone

What number completes this equation?

- a 3
- b 2
- c $\frac{1}{2}$
- d $\frac{1}{3}$

- 2** The cone and cylinder pictured below have the same height and radius.



$V = 96 \text{ cm}^3$

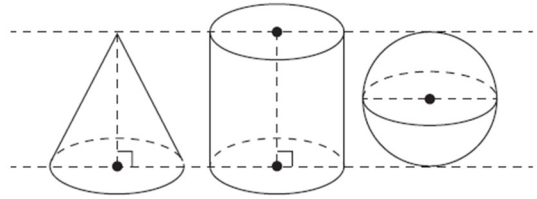
$V = ?$

The volume of the cone is 96 cm^3 .

What is the volume of the cylinder?

- a 32 cm^3
- b 96 cm^3
- c 192 cm^3
- d 288 cm^3

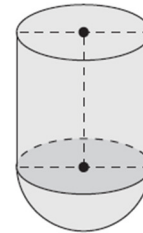
- 3** A class is doing an experiment with the cone, cylinder and sphere pictured.



The class discovers it takes

- 2 full cones to fill the sphere completely.
- 3 full cones to fill the cylinder completely.

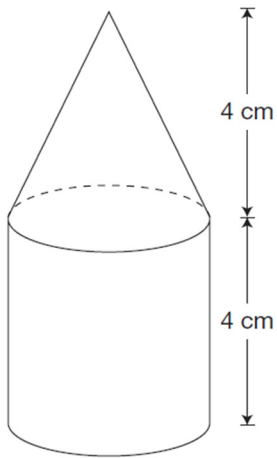
A figure is made using the cylinder and half of the sphere.



How many full cones will it take to fill this figure?

- a 3 cones
- b 4 cones
- c 5 cones
- d 6 cones

- 4** The figure pictured below is made up of a cone on top of a cylinder.



The cylinder has a volume of 96 cm^3 .

What is the volume of the figure?

- a 120 cm^3
- b 128 cm^3
- c 144 cm^3
- d 192 cm^3

ANSWERS

1) a 2) d 3) b 4) b