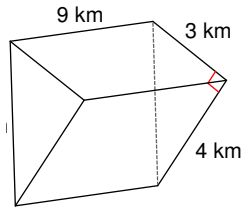
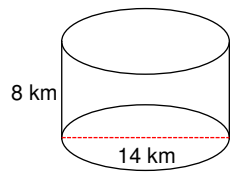


ROUND ALL ANSWERS TO THE NEAREST 10th WHERE NECESSARY

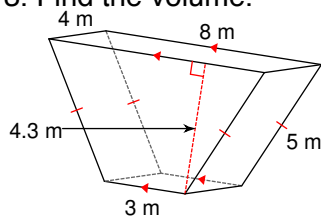
1. Find the volume and surface area.



2. Find the volume and surface area. (USE  $\pi = 22/7$ )



3. Find the volume.



4. The volume of a cube is  $216 \text{ cm}^3$ . Find the surface area.

5. The surface area of a cube is  $294 \text{ cm}^2$ . Find the volume.

ROUND ALL ANSWERS TO THE NEAREST 10th WHERE NECESSARY

6. The volume of a cylinder is  $1,230.88 \text{ cm}^3$ . The radius is 7 cm. Find the height. ( $\pi = 3.14$ )

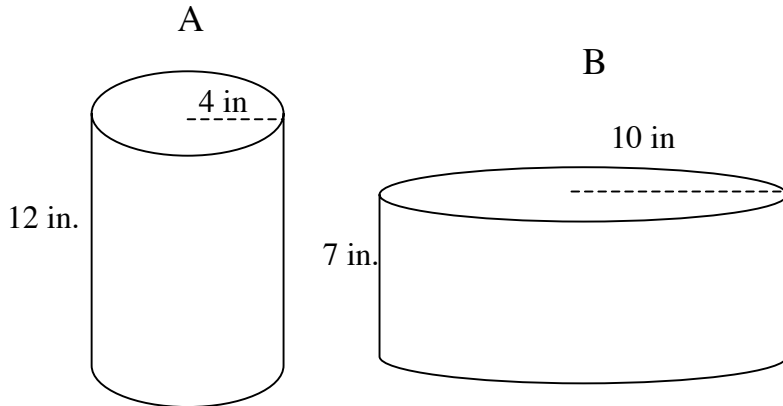
7. The volume of a cylinder is  $1,017.36 \text{ cm}^3$ . The height is 9 cm. Find the radius. ( $\pi = 3.14$ )

8. The surface area of a cylinder is  $401.92 \text{ in}^2$ . The radius is 4 in. Find the height. ( $\pi = 3.14$ )

\*9. An empty lap pool is in the shape of a rectangular prism. It is 90 feet long, 45 feet wide and 9 feet deep. It is to be filled with water at a rate of  $3 \text{ yd}^3$  per minute. How many hours will it take to fill the pool?

ROUND ALL ANSWERS TO THE NEAREST 10th WHERE NECESSARY

\*10. Cylinder A is filled with water and cylinder B is empty. After all of the water from cylinder A is poured into cylinder B, what percent of cylinder B contains water?



**Answers:**

1. $V = 54 \text{ km}^3$ $SA = 120 \text{ km}^2$	6. $h = 8 \text{ cm}$
2. $V = 1232 \text{ km}^3$ $SA = 660 \text{ km}^2$	7. $r = 6 \text{ cm}$
3. $V = 94.6 \text{ m}^3$	8. $h = 12 \text{ in}$
4. $SA = 216 \text{ cm}^2$	9. $7 \frac{1}{2} \text{ hrs}$
5. $V = 343 \text{ cm}^3$	10. 27.4%