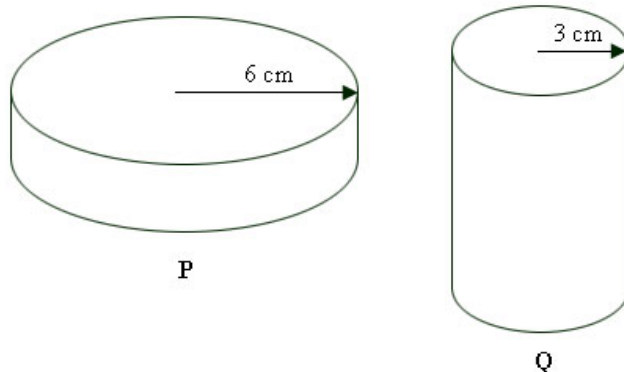


Cylinders with the same volume

This task is about working out the height of two cylinder shapes given the volume and the radius.

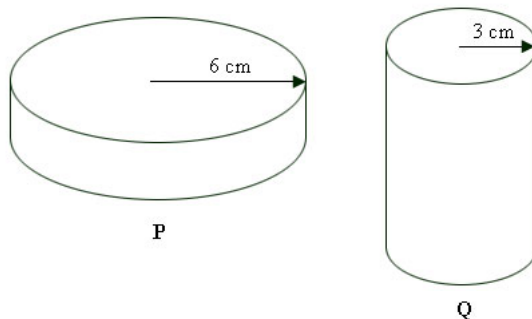
The two cylinders below each contain 226 cm^3 of liquid.



What is the height of each cylinder if the measurements are as shown?
Use $\pi = 3.14$ approx.

- a) Height of P : cm
b) Height of Q : cm

The two cylinders below each contain 226 cm^3 of liquid.



c) If the height of P was 5 cm and the height of Q was 20 cm, which statement below would be correct about the radius of each cylinder, if the volume was the **same**?

(A) Radius of P is the same as the radius of Q.

(B) Radius of P is half the radius of Q.

(C) Radius of P is twice the radius of Q.

(D) Radius of P is four times the radius of Q.

(E) Nothing definite can be said without more information.