Three oranges





Useful Information Area of circle = πr^2 Volume of cylinder = area of base × height Volume of sphere = $4/_3\pi r^3$ Use π = 3.14

Three oranges (perfect spheres), each with a radius of 4 cm, are packaged one on top of the other in a clear plastic tube for export.

a)	What is the height of the tube? cm
b)	What is the area of the lid of the cylinder? cm ²
C)	What is the volume of the empty cylinder? cm ³
d)	What is the volume of one orange? cm ³
e)	What is the volume of air in the cylinder when all 3 oranges are in it? cm ³

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