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1. **(C)**

2.

V = 4/3π1³

V = 4/3π

4/3πR³ = 1000000 \* 4/3π

R³ = 1000000

R³ = 106

R =

**R = 10² = 100**

3.

V = 4πr³ / 3

raio = 2r

allura = 4r

Vc= πr²h

Vc = π4r²4r = 16πr³

x = V/Vc = (4πr³ / 3) / (16πr³)

x = 1/12

4.

Ve1 + Ve2 = Vc

4/3π1³ + 4/3π2³ = 3πr²

9r² = 36

**r = = 2 cm (B)**

5.

Vc = 1π6² = 36π

Ve = 4/3πr³

4/3πr³ = 36π

4πr³ = 108π

r³ = 27

**r = 3 cm (C)**

6.

7.

Vp = Ab\*h

Vp = (10^2)\* π \* 16

Vp= 1600π

V = (4/3)\* π \*2^3

V = (32π)/3

Vp / V = 1600π / 32π/3

**Vp / V = 4800π / 32π = 150 (D)**

8.

2.

A = 6l²

C = 6a²

r = a/2

e = 4πr²

e = 4π(a/2)²

e = 4πa²/4

e = πa²

e/c = πa²/6a²

**e/c = π/6 (A)**

4.

2r/(3-r) = 12/3

2r/(3-r) = 4

2r = 4(3-r)

2r = 12-4r

6r = 12

r = 2

V = π2²(2\*2)

V = π4\*4

**V = 16π m³**

5.

V = [(πh)/3] \* (r² + Rr + R²)

V = (π1 / 3) \* (1² + 2\*1 + 2²)

V = (π1 / 3) \* 7

**V = 8π / 3 cm³**