

**I**

1. 8    2. 0,35    3. 730    4.  $10\sqrt{3}$     5. 8    6. 60

**II**

1. Desen, cu ZE baza mare

2.  $c < a < d < b$

3.  $4\sqrt{13}$

4. a) 6 cm b)  $4\sqrt{3}$

5.  $n = (2^{19})^2$

**III**

1. a)  $m(\sphericalangle ADB) = \frac{180}{2} = 90^\circ$  b)  $1600\sqrt{3} \text{ m}^2$  c) Fie O centrul cercului. OADE, OBCE- romburi  $\Rightarrow$  E este mijl. lui CD.

2. a)  $1017 \text{ cm}^3 > 1 \text{ litru}$  b)  $\frac{SO'}{12} = \frac{6}{9} \Rightarrow SO' = 8$  c)  $\text{tg}(\sphericalangle O'BO) = \frac{4}{9}$ ,  $\text{tg}(\sphericalangle A'O'A'') = \frac{8}{6}$ , deci sunt necoliniare