

ESENO 2 PAG. 342

N° 119

DATI

$$2P_Q = 18 \text{ dm}$$

$$V = 157,95 \text{ dm}^3$$

RICHESTA

$$S_{\text{tot}} = ?$$



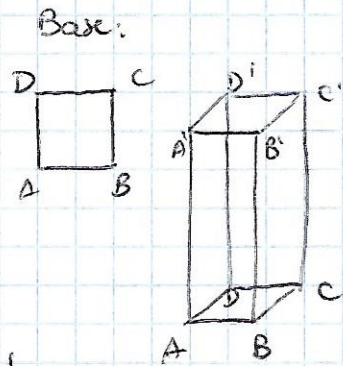
$$S_{\text{tot}} = S_{\text{lat}} + 2 \cdot S_{\text{base}}$$

$$\downarrow \qquad \downarrow$$
$$2p_{\text{base}} \cdot h_{\text{prisma}} + 2 \cdot l_Q^2$$

DATI DA TROVARE

$l_Q \rightarrow$ dal perimetro ($2p:4$)

$h_{\text{prisma}} \rightarrow$ dal volume ($h = \frac{V}{A_{\text{base}}}$)



SVOLGIMENTO

$$2p_Q : 4 = 18 : 4 = 4,5 \text{ dm } l_Q$$

$$l_Q^2 = 4,5 \cdot 4,5 = 4,5^2 = 20,25 \text{ dm}^2 \quad A_Q \quad (A_{\text{base}})$$

$$\frac{V}{A_{\text{base}}} = 157,95 : 20,25 = 7,8 \text{ dm } h_{\text{prisma}}$$

$$S_{\text{tot}} = 18 \cdot 7,8 + 2 \cdot 20,25 = 140,4 + 40,5 = 180,9 \text{ dm}^2$$

N° 120

DATI

$$d_r = 5,1 \text{ dm}$$

$$h_r = 2,4 \text{ dm}$$

$$h_{\text{prisma}} = 4,6 \text{ dm}$$

RICHESTA

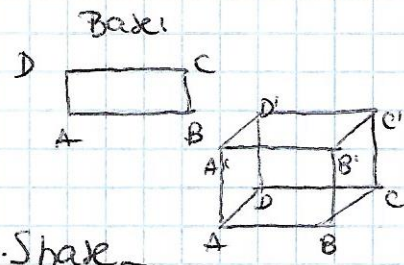
$$S_{\text{tot}} = ?$$



$$S_{\text{tot}} = S_{\text{lat}} + 2 \cdot S_{\text{base}}$$

$$\downarrow \qquad \downarrow$$
$$2p_{\text{base}} \cdot h_{\text{prisma}} + 2 \cdot (b_r \cdot h_r)$$

DATI DA TROVARE



SVOLGIMENTO

$$b_r = \sqrt{5,1^2 - 2,4^2} = \sqrt{26,01 - 5,76} = \sqrt{20,25} = 4,5 \text{ dm} \quad \bullet \quad V = A_{\text{base}} \cdot h_{\text{prisma}}$$

$$A_{\text{base}} = 4,5 \cdot 2,4 = 10,8 \text{ dm}^2$$

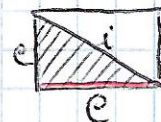
$$2p_{\text{base}} = (4,5 + 2,4) \cdot 2 = 13,8 \text{ dm}$$

$$V = 10,8 \cdot 4,6 = 49,68 \text{ dm}^3$$

$$\downarrow \qquad \downarrow$$
$$(b_r \cdot h_r) \cdot 2$$

$$\downarrow \qquad \downarrow$$
$$b_r \cdot h_r$$

$h_r =$ uso il teorema di Pitagora



$$S_{\text{tot}} = 13,8 \cdot 4,6 + 2 \cdot 10,8 = 63,68 + 21,6 = 85,08 \text{ dm}^2$$