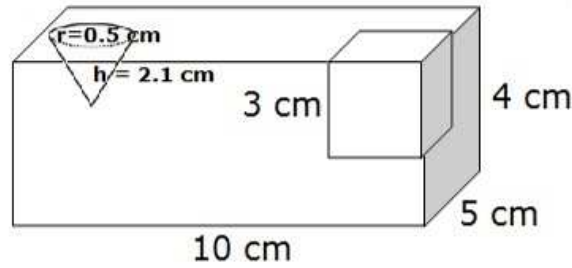


NCERT Exemplar Solutions by (Dev Anoop)



volume of wood used in entire stand
= vol. of cuboid - (vol of 4 conical depressions + vol of cubical depression)

$$= LBH - \left(4 \times \frac{1}{3} \pi r^2 h + e^3 \right)$$

$$= 10 \times 5 \times 4 - \left(\frac{4}{3} \times \frac{22}{7} \times 0.5 \times 0.5 \times 2.1 + 3^3 \right)$$

$$= 200 - (2.2 + 27)$$

$$= 200 - 29.2$$

$$= 170.8 \text{ cm}^3$$

NCERT Exemplar Solutions by (Dev Anoop)