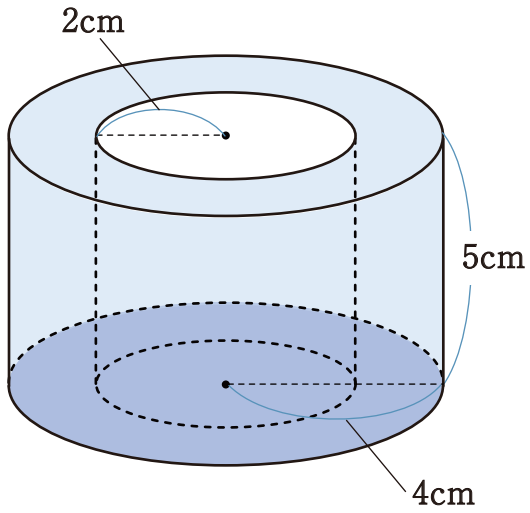
数学

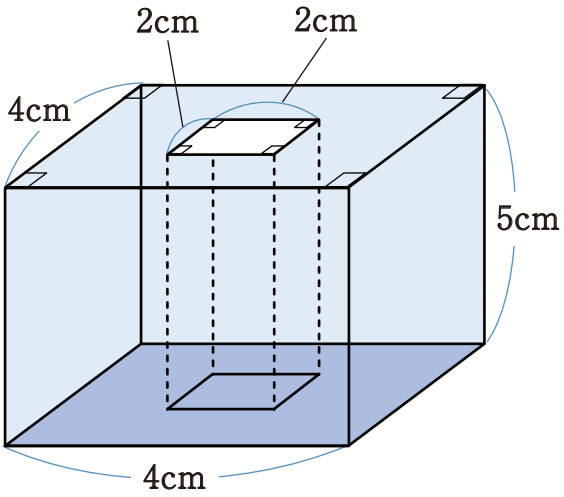
平面図形と空間図形
角柱や円柱の体積

1 次の図形の体積を求めなさい。

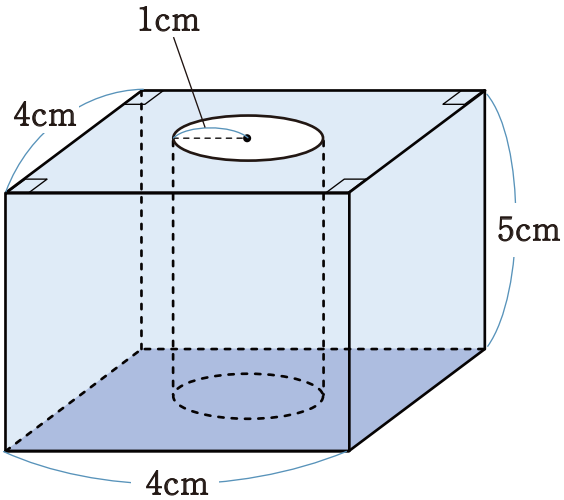
①



②



③



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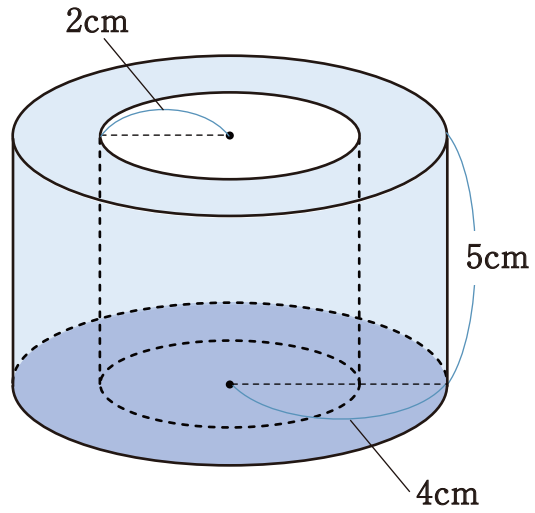
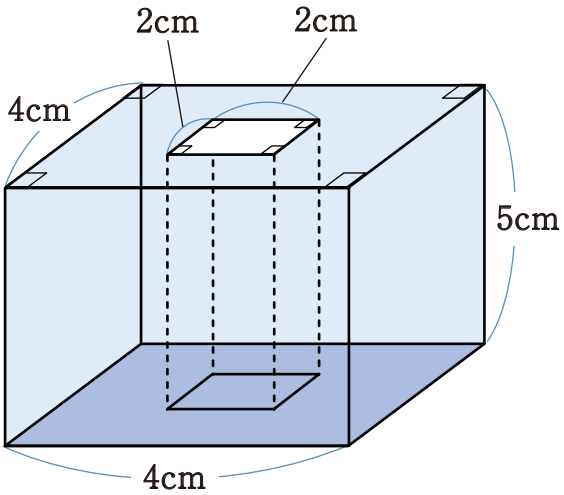


$60\pi\ \mathrm{cm}^3$

$(\pi \times 4^2 - \pi \times 2^2) \times 5$
$= (16\pi - 4\pi) \times 5$
$= 12\pi \times 5$
$= 60\pi\ \mathrm{cm}^3$

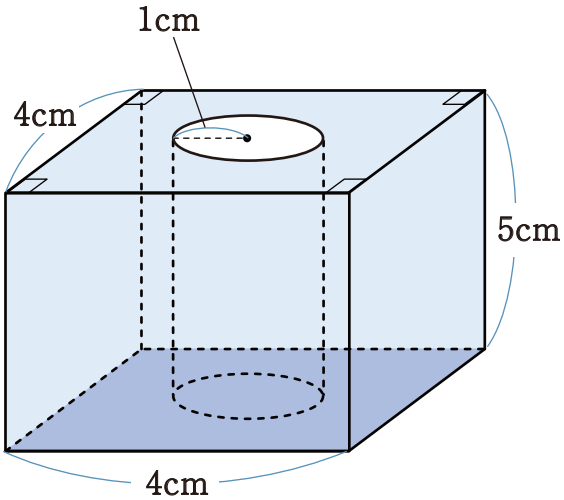
②



$60\mathrm{cm}^3$

$(4 \times 4 - 2 \times 2) \times 5$
$= (16 - 4) \times 5$
$= 12 \times 5$
$= 60\mathrm{cm}^3$

③



$(80 - 5\pi)\ \mathrm{cm}^3$

$(4 \times 4 - \pi \times 1^2) \times 5$
$= (16 - \pi) \times 5$
$= (80 - 5\pi)\ \mathrm{cm}^3$

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