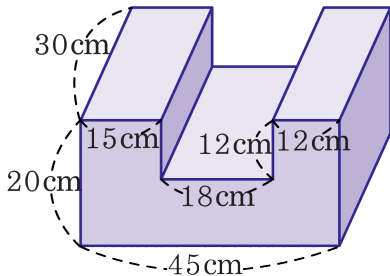


1. 다음 도형의 부피를 구하시오.



▶ 답: cm^3

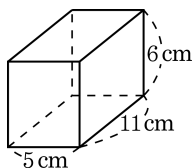
▷ 정답: 20520 cm^3

해설

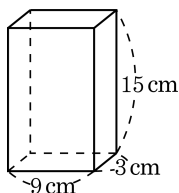
$$\begin{aligned} & (\text{전체부피}) - (\text{푼린 부분의 부피}) \\ &= (45 \times 30 \times 20) - (18 \times 12 \times 30) \\ &= 27000 - 6480 \\ &= 20520(\text{cm}^3) \end{aligned}$$

2. 다음 직육면체의 겉넓이를 구하시오.

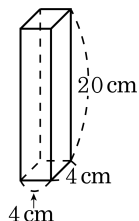
(1)



(2)



(3)



답 :

cm²



답 :

cm²



답 :

cm²

▷ 정답 : (1) 302 cm²

▷ 정답 : (2) 414 cm²

▷ 정답 : (3) 352 cm²

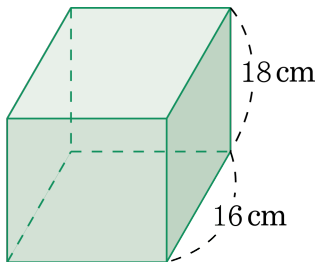
해설

$$\begin{aligned}(1) & 55 \times 2 + 30 \times 2 + 66 \times 2 \\ & = 110 + 132 + 60 \\ & = 302(\text{cm}^2)\end{aligned}$$

$$\begin{aligned}(2) & 27 \times 2 + 45 \times 2 + 135 \times 2 \\ & = 54 + 90 + 270 \\ & = 414(\text{cm}^2)\end{aligned}$$

$$\begin{aligned}(3) & 16 \times 2 + 80 \times 2 + 80 \times 2 \\ & = 32 + 160 + 160 \\ & = 352(\text{cm}^2)\end{aligned}$$

3. 다음 도형의 겉넓이를 이용하여 부피를 구하시오.



겉넓이 : 1936 cm^2

- ① 5760 cm^3 ② 5400 cm^3 ③ 5216 cm^3
④ 4924 cm^3 ⑤ 4866 cm^3

해설

가로 16 cm, 세로 18 cm인 직사각형을 밑면으로 하여 높이를 구해 봅니다.

$$16 \times 18 \times 2 + (16 + 18 + 16 + 18) \times \square = 1936$$

$$576 + 68 \times \square = 1936$$

$$\square = (1936 - 576) \div 68 = 20(\text{ cm})$$

$$(\text{부피}) = 16 \times 18 \times 20 = 5760(\text{ cm}^3)$$