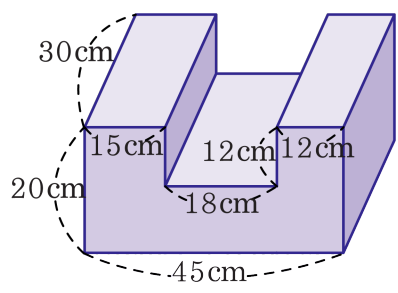


1. 다음 도형의 부피를 구하시오.



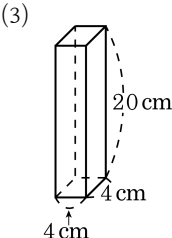
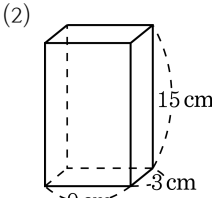
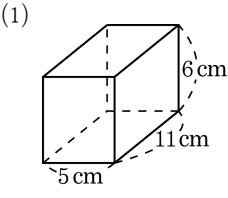
▶ 답 : cm^3

▷ 정답 : 20520 cm^3

해설

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

2. 다음 직육면체의 겉넓이를 구하시오.



▶ 답 : cm²

▶ 답 : cm²

▶ 답 : cm²

▷ 정답 : (1) 302 cm²

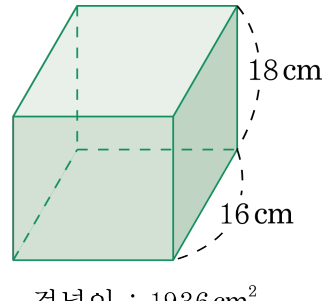
▷ 정답 : (2) 414 cm²

▷ 정답 : (3) 352 cm²

해설

(1) $55 \times 2 + 30 \times 2 + 66 \times 2$
 $= 110 + 132 + 60$
 $= 302(\text{cm}^2)$
(2) $27 \times 2 + 45 \times 2 + 135 \times 2$
 $= 54 + 90 + 270$
 $= 414(\text{cm}^2)$
(3) $16 \times 2 + 80 \times 2 + 80 \times 2$
 $= 32 + 160 + 160$
 $= 352(\text{cm}^2)$

3. 다음 도형의 겉넓이를 이용하여 부피를 구하시오.



- ① 5760 cm³ ② 5400 cm³ ③ 5216 cm³
④ 4924 cm³ ⑤ 4866 cm³

해설

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

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

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

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

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