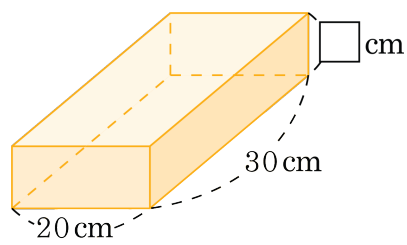


1. 직육면체의 겉넓이가 2100 cm^2 일 때, 안에 알맞은 수를 구하시오.



- ① 8 cm ② 9 cm ③ 11 cm ④ 12 cm ⑤ 13 cm

해설

$$\begin{aligned}(\text{옆넓이}) &= (\text{겉넓이}) - (\text{밑넓이}) \times 2 \\&= 2100 - (20 \times 30) \times 2 \\&= 2100 - 1200 = 900(\text{ cm}^2) \\(\text{옆넓이}) &= (\text{밑면의 둘레}) \times (\text{높이}) \\(\text{높이}) &= (\text{옆넓이}) \div (\text{밑면의 둘레}) \\&= 900 \div (20 + 30 + 20 + 30) \\&= 900 \div 100 = 9(\text{ cm})\end{aligned}$$