1. 다음 중 비례식은 어느 것입니까?

① $2 \times 3 = 2 + 4$ ② $1 : 4 = 2 : 8$ ③ $2 \times 5 = 5 \times 2$

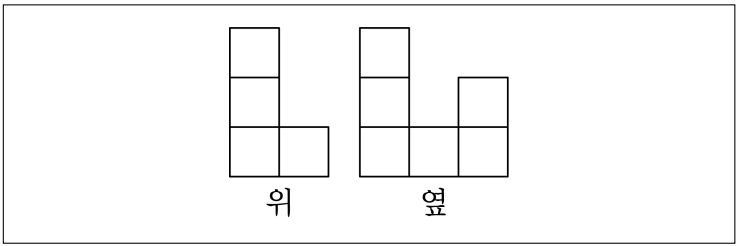
④ $6 \div 3 = 2$ ⑤ $5 + 3 = 6 + 2$

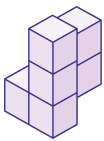
해설

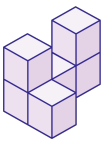
비의 값이 같은 두 비를 등식으로 나타낸 식을 비례식이라고 합니다.

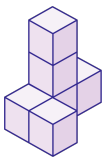
② $1 : 4 = (1 \times 2) : (4 \times 2) = 2 : 8$

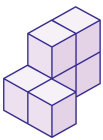
2. 위, 옆에서 본 모양을 보고, 쌓기나무를 바르게 쌓은 것은 어느 것입니까?

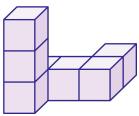


① 

② 

③ 

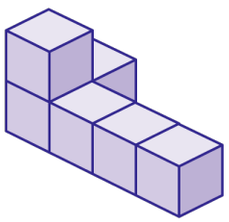
④ 

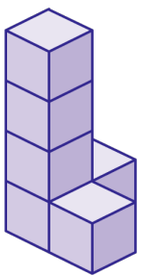
⑤ 

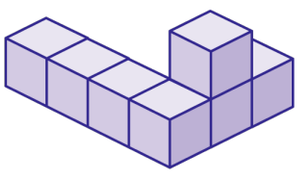
해설

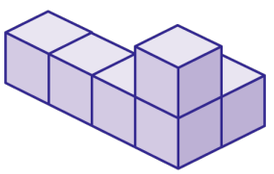
위에서 본 모양은 모두 같고, 옆에서 본 모양이 같은 것은 1뿐입니다.

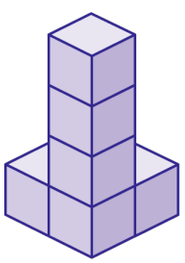
3. 다음 중 쌓기나무의 개수가 다른 것은 어느 것입니까?

① 

② 

③ 

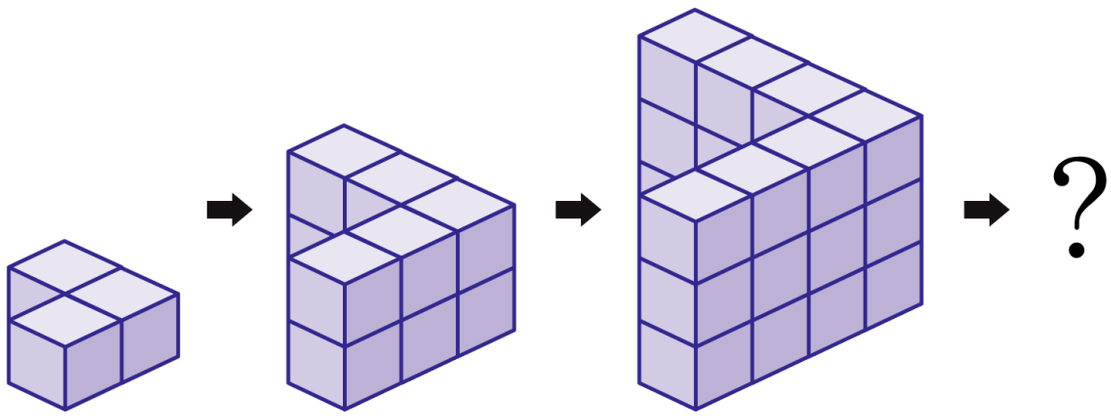
④ 

⑤ 

해설

① 6개
② 6개
③ 7개
④ 6개
⑤ 6개

4. 쌓기나무를 다음과 같은 규칙으로 쌓을 때, 네 번째에 올 쌓기나무는 몇 개 입니까?



① 21 개 ② 28 개 ③ 32 개 ④ 36 개 ⑤ 40 개

해설

1 층의 쌓기나무 갯수를 보면

$3, 5, 7, \cdots$ 로 2 개씩 늘어나는 규칙을 가지고 있습니다.

1 층 : $1 \times 3 = 3$(개)

2 층 : $2 \times (3 + 2) = 10$(개)

3 층 : $3 \times (3 + 2 + 2) = 21$(개)

4 층 : $4 \times (3 + 2 + 2 + 2) = 36$(개)