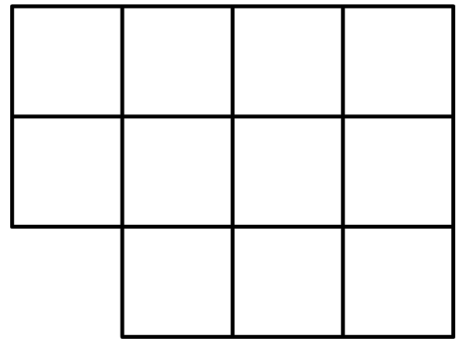
1. 다음은 쌓기나무를 위에서 내려다 본 모양입니다. 1층에 쌓기나무 개수는 몇 개 입니까?

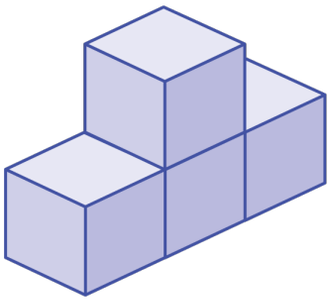


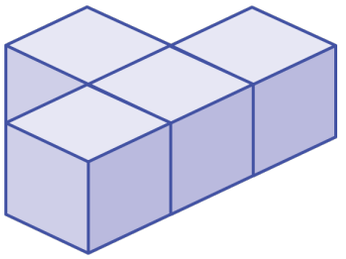
① 13개 ② 12개 ③ 11개 ④ 10개 ⑤ 9개

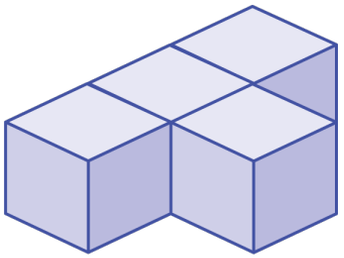
해설

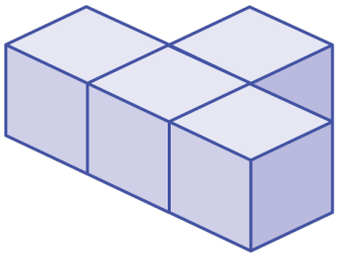
위에서 내려다 본 모양은 1층의 모양과 같으므로 바탕모양의 개수와 같습니다.
그러므로 11개입니다.

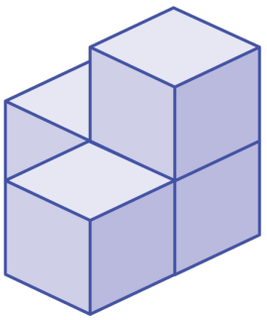
2. 다음 중 모양이 다른 하나는 어느 것입니까?

① 

② 

③ 

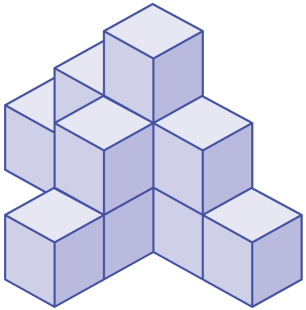
④ 

⑤ 

해설

쌓기나무 모양을 돌리거나 눕히거나 세워서 다른 모양을 찾아봅니다.

3. 다음 그림은 규칙에 따라 쌓기나무를 쌓은 것입니다. 규칙을 찾아 쓴 것으로 옳은 것은 어느 것입니까?



① 아래로 내려갈수록 쌓기나무가 줄어듭니다.

② 아래로 내려갈수록 쌓기나무가 2개, 4개, 6개로 늘어납니다.

③ 아래로 내려갈수록 쌓기나무가 1개, 3개, 5개로 늘어납니다.

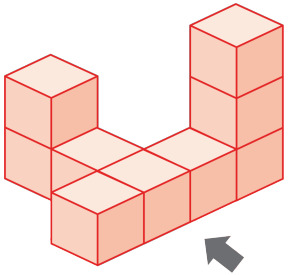
④ 아래로 내려갈수록 쌓기나무가 엇갈려 있습니다.

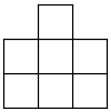
⑤ 아래로 내려갈수록 쌓기나무가 3개씩 늘어납니다.

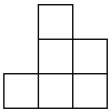
해설

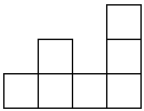
3층 : 1개, 2층 : 4개, 1층 : 7개로 아래로 내려갈수록 쌓기나무가 3개씩 늘어나는 규칙입니다.

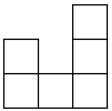
4. 다음 쌓기나무를 옆에서 본 모양은 어느 것입니까?

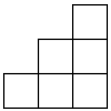


① 

② 

③ 

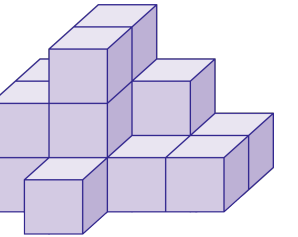
④ 

⑤ 

해설

화살표 방향으로 보면 왼쪽에서부터 1층, 2층, 1층, 3층으로 보입니다.

5. 왼쪽 그림과 같은 모양을 쌓는 데 필요한 쌓기나무의 개수를 위에서 본 모양 위에 나타낸 것 중 옳은 것은 어느 것입니까?



①

2	3	1	2
1	2	1	1
	1		

②

2	3	2
2	3	1
	1	

③

2	3	2
2	3	1
1		

④

2	3	2	1
2	3	1	1
	1		

⑤

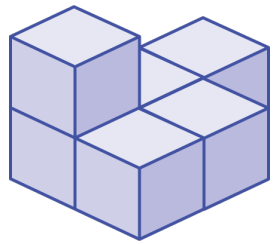
2	3	2	1
2	3	1	2
	1		

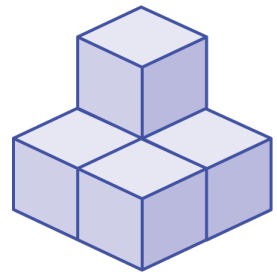
해설

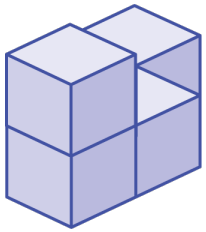
④

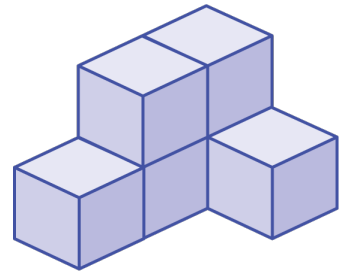
2	3	2	1
2	3	1	1
	1		

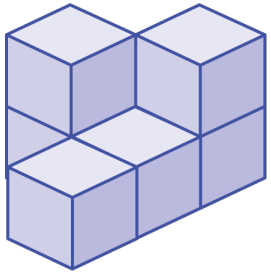
6. 다음 중 모양이 같은 것을 모두 고르시오.

① 

② 

③ 

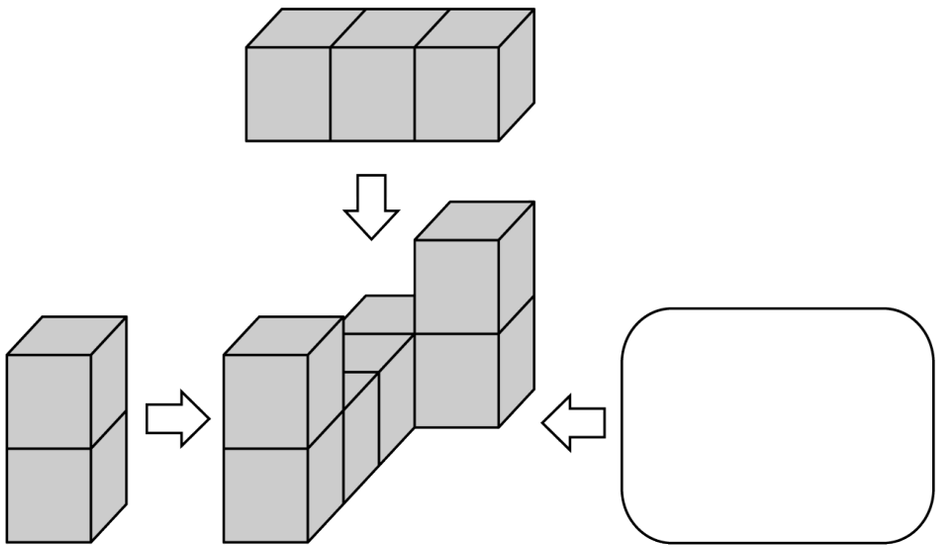
④ 

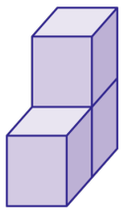
⑤ 

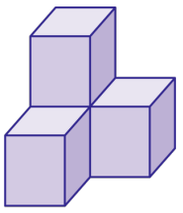
해설

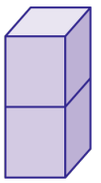
쌓기나무 모양을 돌리거나 눕히어 모양이 같은 것을 찾아봅니다.

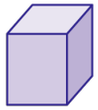
7. 아래 모양을 몇 개의 부분으로 나누어 쌓으려고 할 때, 빈 칸에 들어갈 모양은 어느 것인가?



① 

② 

③ 

④ 

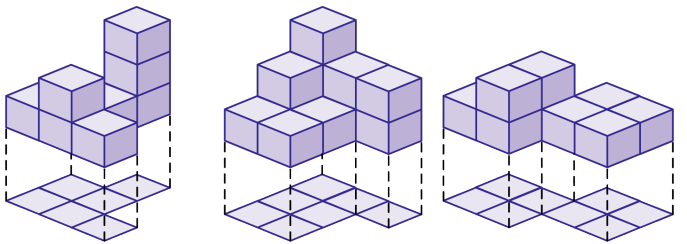
⑤ 답 없음

해설

원래 쌓기나무 모양에서 나누어진 부분을 차례로 지우며 생각해 봅니다.

8. 다음 그림 중 쌓기나무의 개수를 적게 사용한 것부터 순서대로 나열하였을 때 알맞은 것을 고르시오.

㉠ ㉡ ㉢



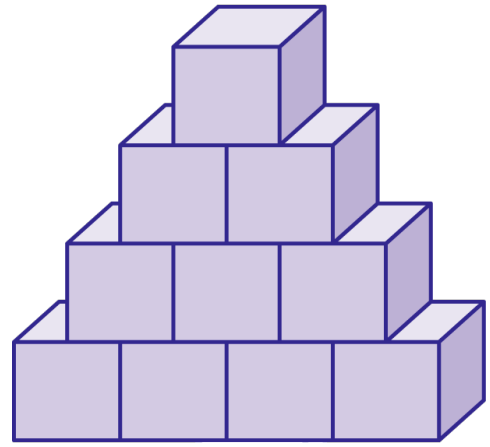
① ㉢,㉠,㉡ ② ㉡,㉢,㉠ ③ ㉠,㉡,㉢

④ ㉢,㉡,㉠ ⑤ ㉠,㉢,㉡

해설

㉠ 1층 : 6개, 2층 : 2개, 3층 : 1개
→ $6+2+1=9$(개)
㉡ 1층 : 7개, 2층 : 4개, 3층 : 1개
→ $7+4+1=12$(개)
㉢ 1층 : 8개, 2층 : 2개 → $8+2=10$개
적게 사용한 순서대로 나열하면,
㉠<㉢<㉡입니다.

9. 다음과 같은 규칙의 쌓기나무가 있습니다. 아래 그림을 10층 모양으로 쌓으려면 쌓기나무는 몇 개 더 필요합니까?



① 10개 ② 44개 ③ 45개 ④ 54개 ⑤ 55개

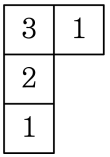
해설

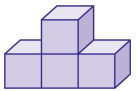
4층까지 쌓기나무 개수는 $1+2+3+4$입니다. 10층까지의 더 필요한 쌓기나무는

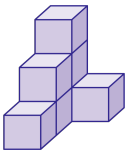
$5+6+7+8+9+10=45$(개) 입니다.

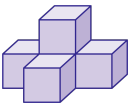
10. 보기의 [ ] 안에 있는 수만큼 쌓기나무를 쌓은 그림을 찾으시오.

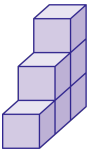
보기

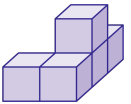
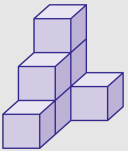


① 

② 

③ 

④ 

⑤ 

해설