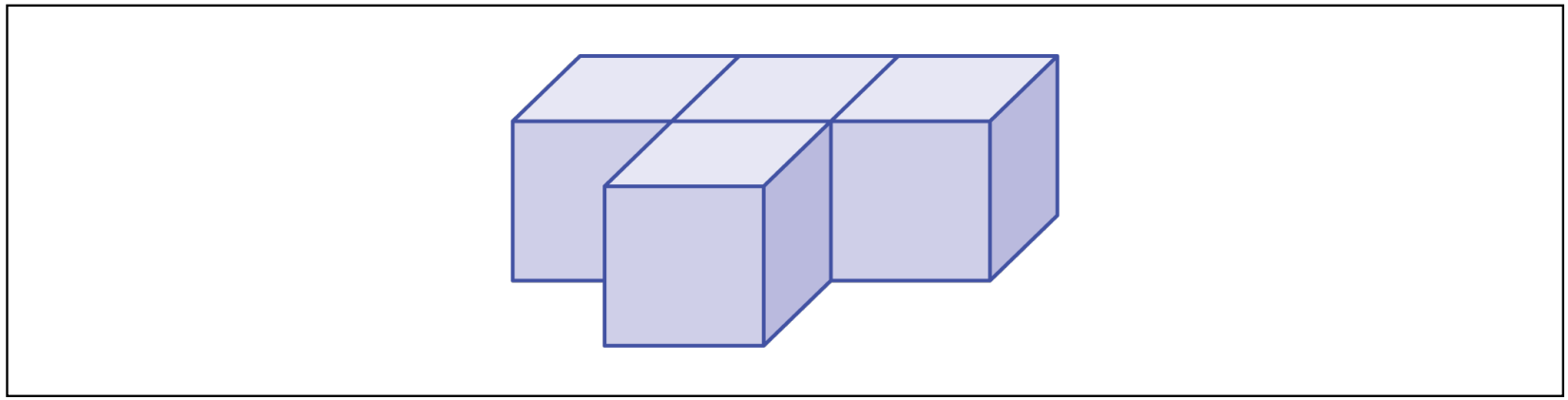
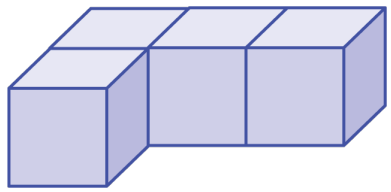
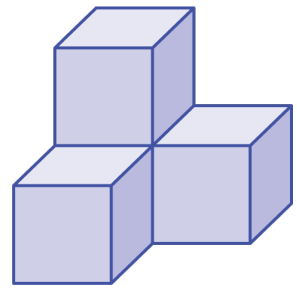
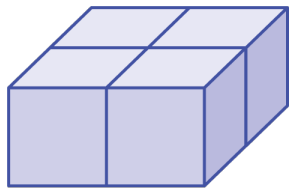
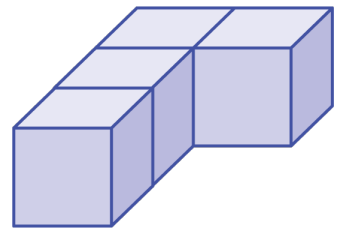
1. 다음 그림과 모양이 같은 쌓기나무는 어느 것입니까?

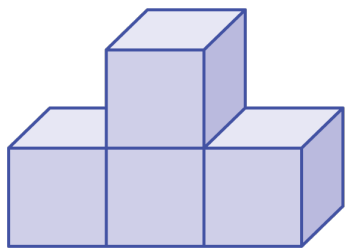


① 

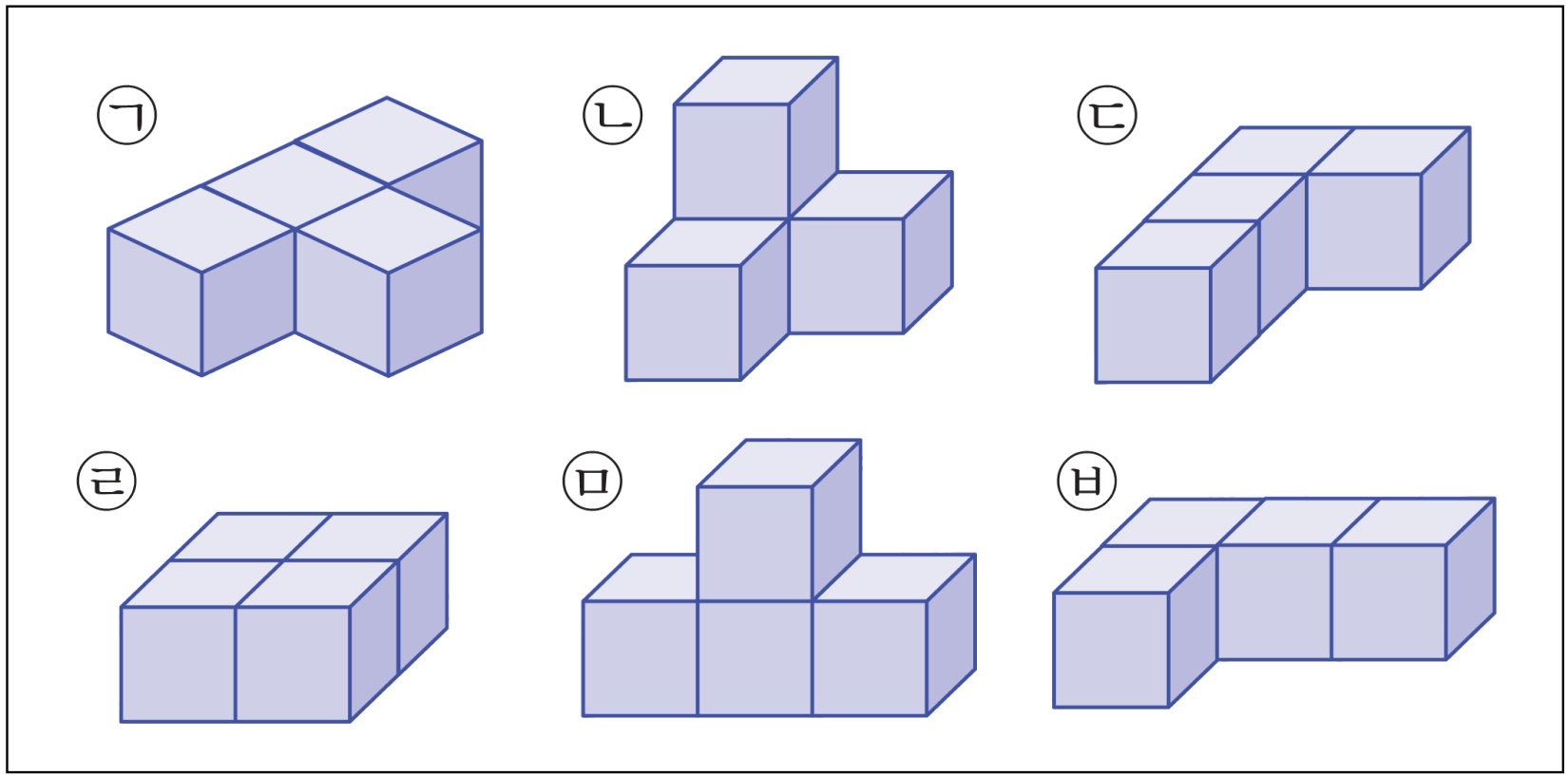
② 

③ 

④ 

⑤ 

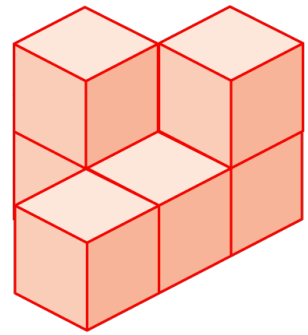
2. 다음 중 같은 쌓기나무를 바르게 짝지은 것은 어느 것입니까?

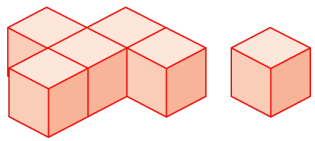


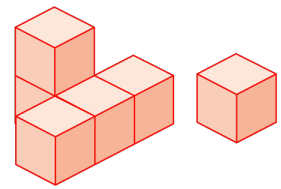
① ㉠,㉢ ② ㉢,㉤ ③ ㉡,㉤ ④ ㉢,㉥ ⑤ ㉠,㉥

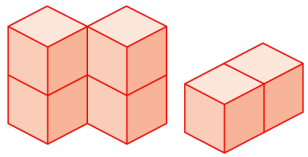
3. 두 부분을 합쳤을 때,<보기>와 같은 모양이 아닌 것은 어느 것입니까?

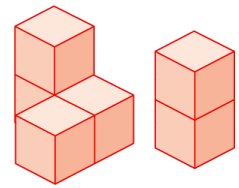
보기

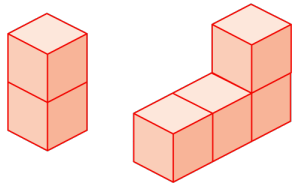


① 

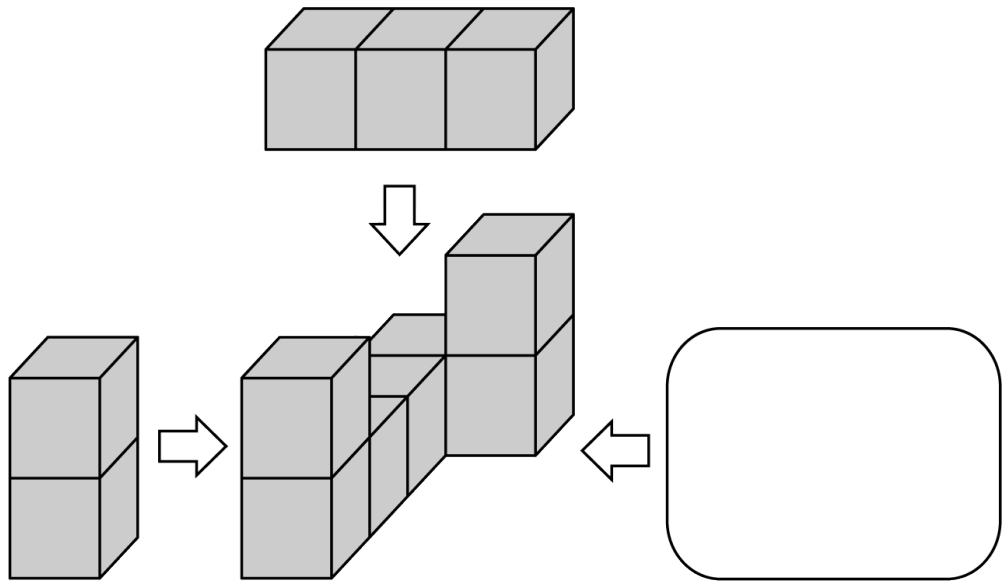
② 

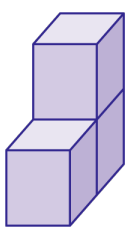
③ 

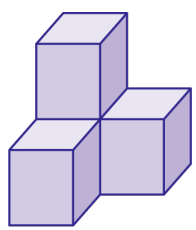
④ 

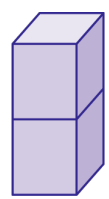
⑤ 

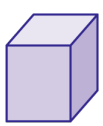
4. 아래 모양을 몇 개의 부분으로 나누어 쌓으려고 할 때, 빈 칸에 들어갈 모양은 어느 것인가?



① 

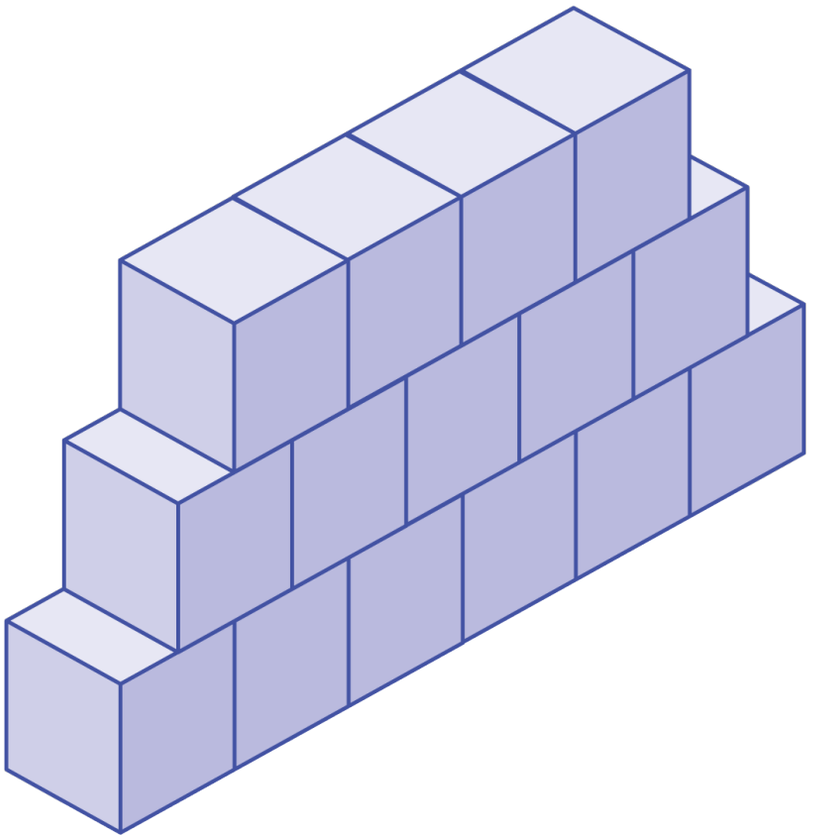
② 

③ 

④ 

⑤ 답 없음

5. 쌓기나무로 그림과 같은 모양을 만들어 보고, 규칙을 바르게 말한 것을 고르시오.



① 위로 올라갈수록 3 개씩 줄어듭니다.

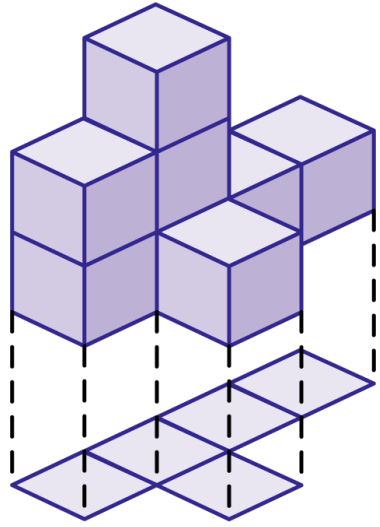
② 위로 올라갈수록 2 개씩 늘어납니다.

③ 위로 올라갈수록 1 개씩 늘어납니다.

④ 위로 올라갈수록 2 개씩 줄어듭니다.

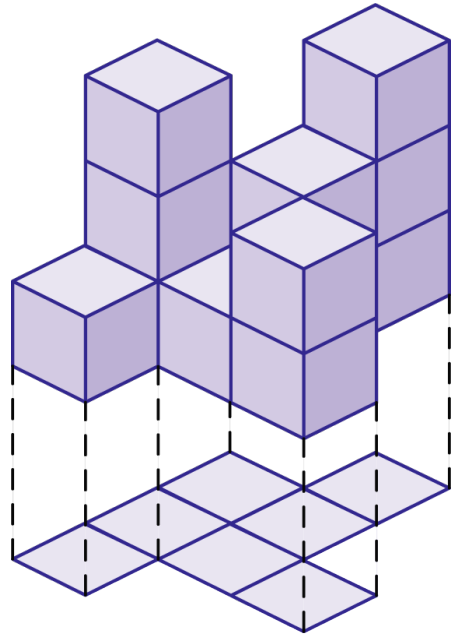
⑤ 위로 올라갈수록 1 개씩 줄어들고 엇갈려 쌓았습니다.

6. 쌓기나무를 쌓아서 다음 모양을 만들었습니다. 사용된 쌓기나무는 모두 몇 개입니까?



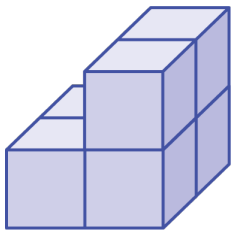
① 7 개 ② 8 개 ③ 9 개 ④ 10 개 ⑤ 11 개

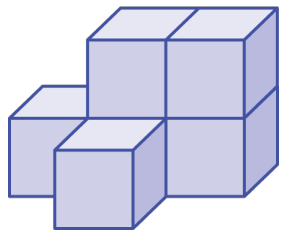
7. 다음 13 개의 쌓기나무 중 2 층의 쌓기나무를 모두 빼면 몇 개의 쌓기나무가 남습니까?

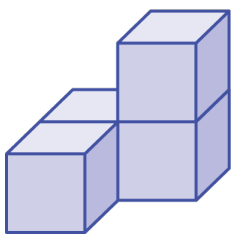


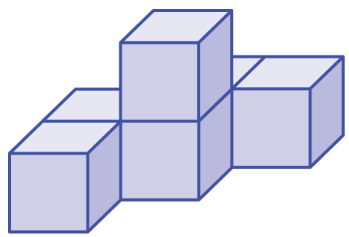
① 6 개 ② 7 개 ③ 8 개 ④ 9 개 ⑤ 10 개

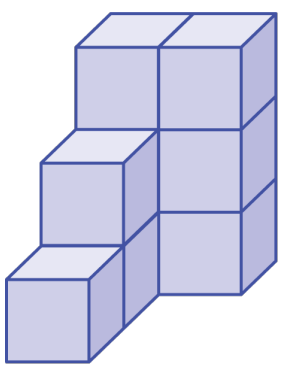
8. 다음 중 앞에서 본 모양과 옆에서 본 모양이 같은 것을 모두 고르시오.

① 

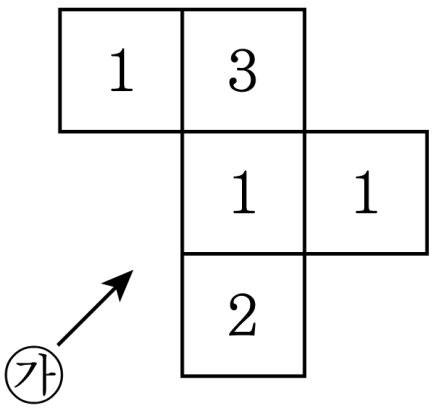
② 

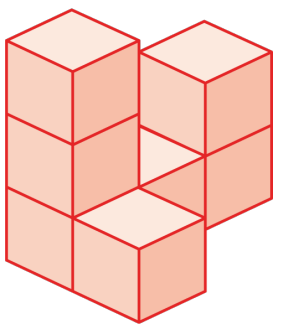
③ 

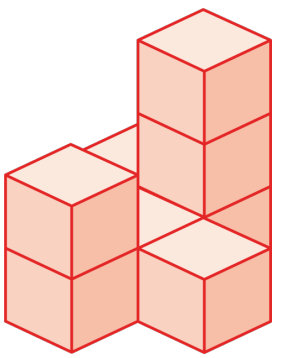
④ 

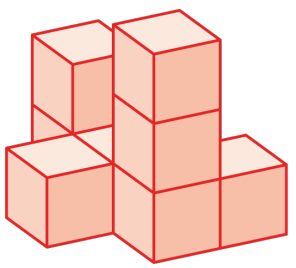
⑤ 

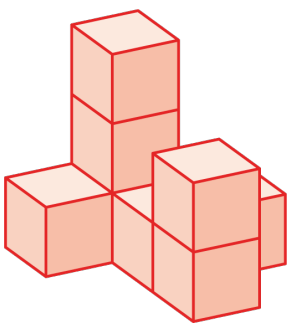
9. 아래 그림에서 □ 안에 있는 수는 그 위에 쌓기나무의 개수를 나타낸 것입니다. ㉮ 방향에서 바라 본 모양은 어느 것입니까?

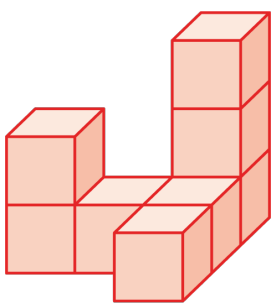


① 

② 

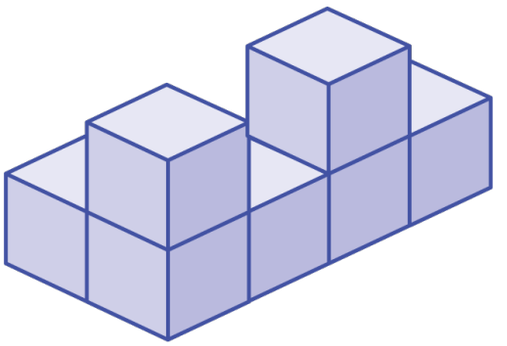
③ 

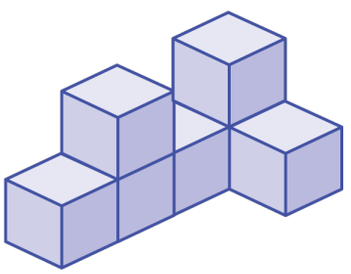
④ 

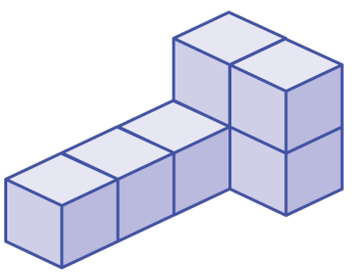
⑤ 

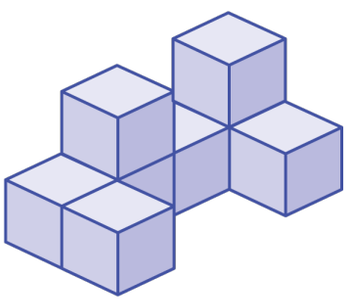
10. 7개로 쌓은 [보기]의 그림과 같은 쌓기나무 모양은 어느 것입니까?

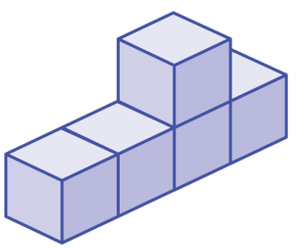
보기

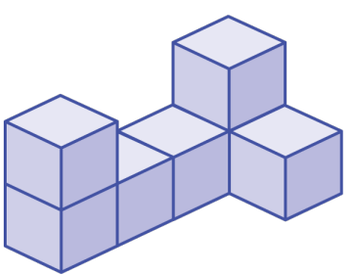


① 

② 

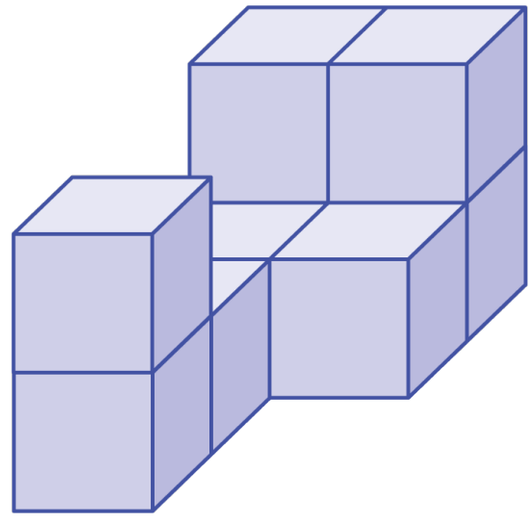
③ 

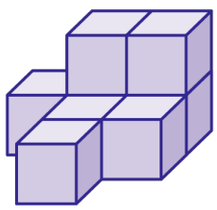
④ 

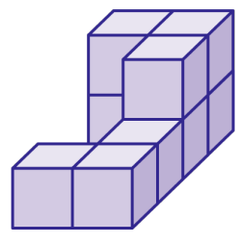
⑤ 

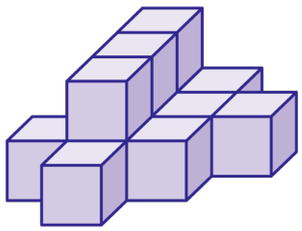
11. 보기와 같은 모양을 찾으시오.

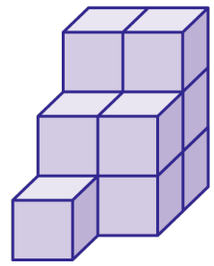
보기

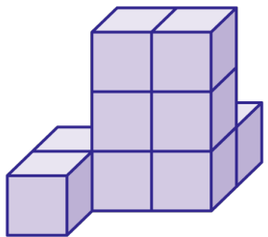


① 

② 

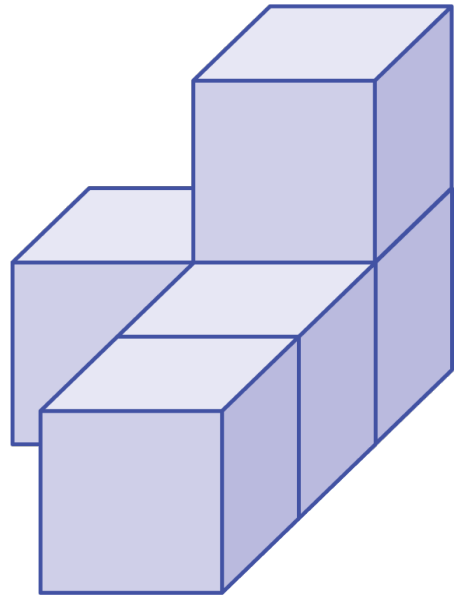
③ 

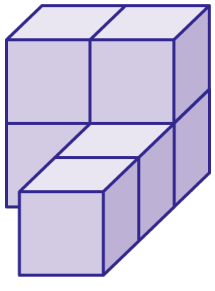
④ 

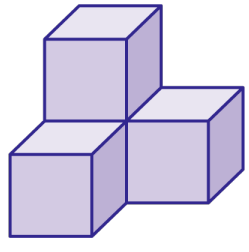
⑤ 

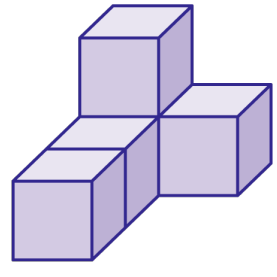
12. 보기와 모양이 같은 것을 찾으시오.

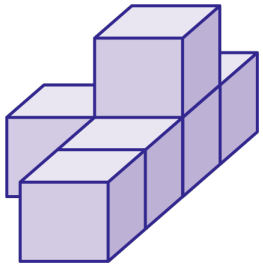
보기

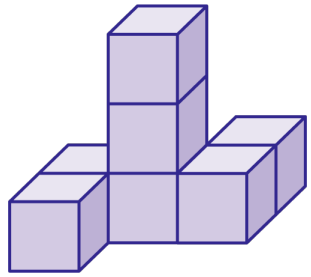


① 

② 

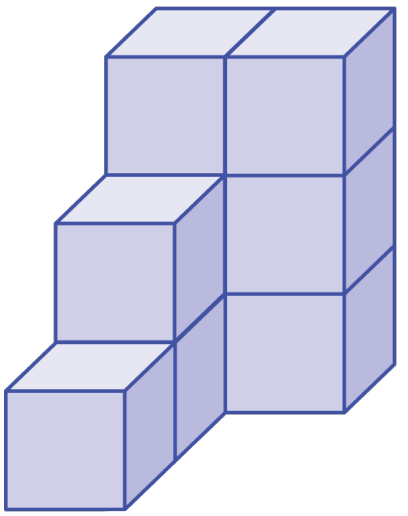
③ 

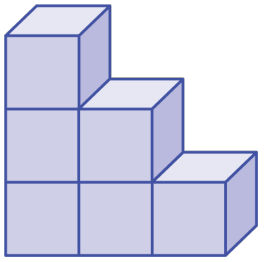
④ 

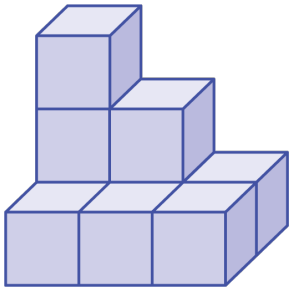
⑤ 

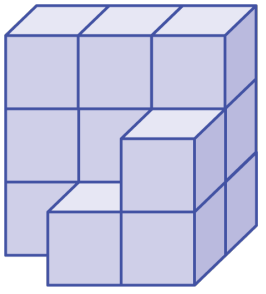
13. 보기와 같은 모양을 찾으시오.

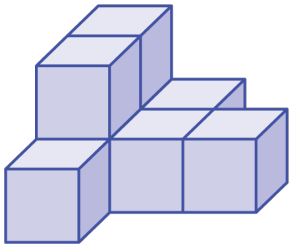
보기

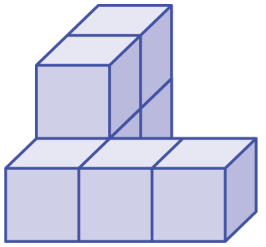


① 

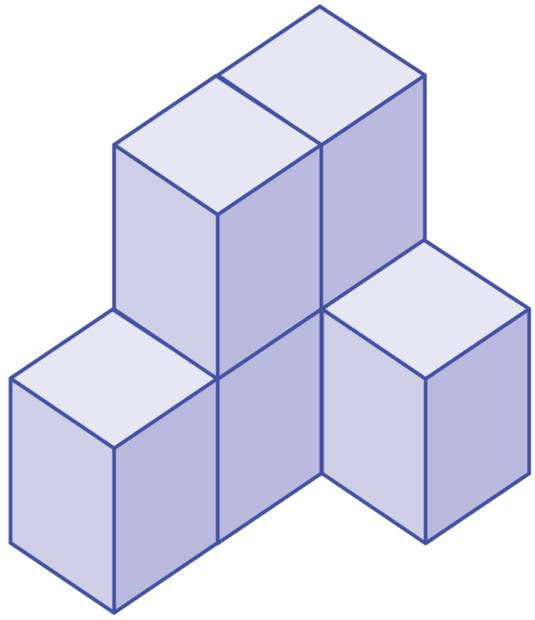
② 

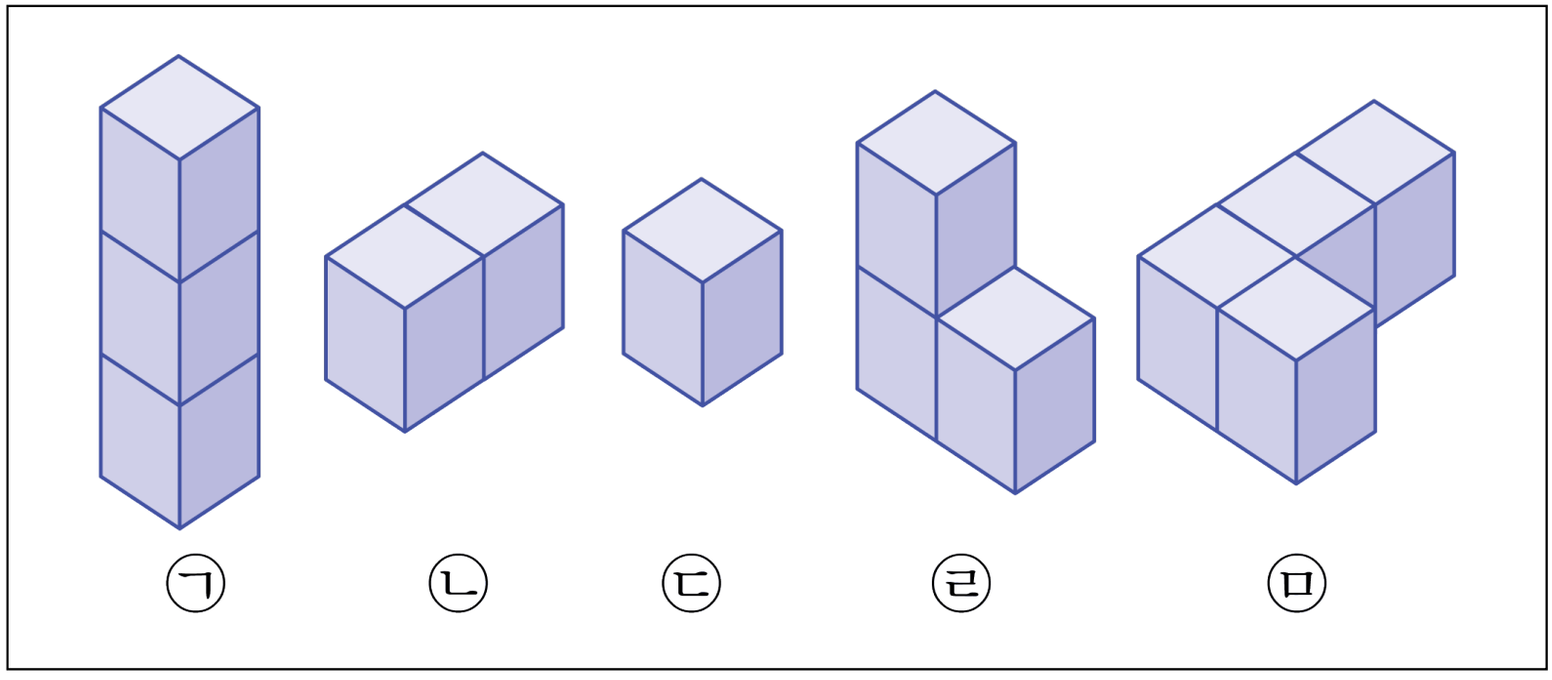
③ 

④ 

⑤ 

14. 다음 중 기호의 모양을 붙였을때 다음 모양이 만들어지지 않는 경우를 모두 고르시오.



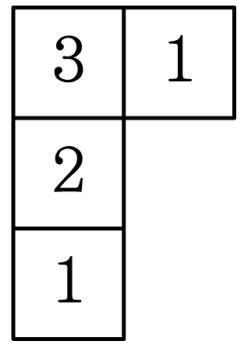


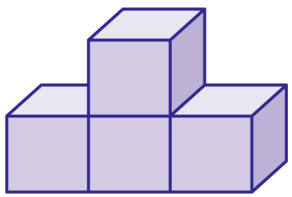
① ㉠, ㉡, ㉢ ② ㉡, ㉢, ㉣ ③ ㉡, ㉤

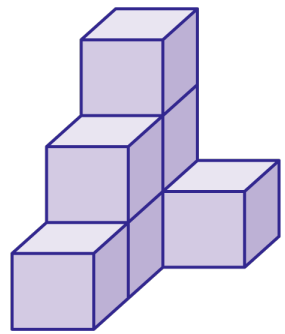
④ ㉡, ㉢ ⑤ ㉣, ㉤

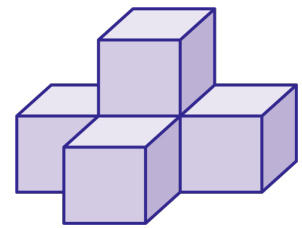
15. 보기의 ☐ 안에 있는 수만큼 쌓기나무를 쌓은 그림을 찾으시오.

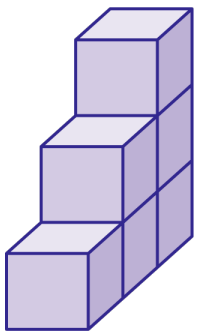
보기

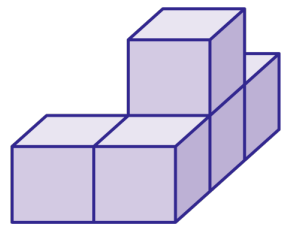


① 

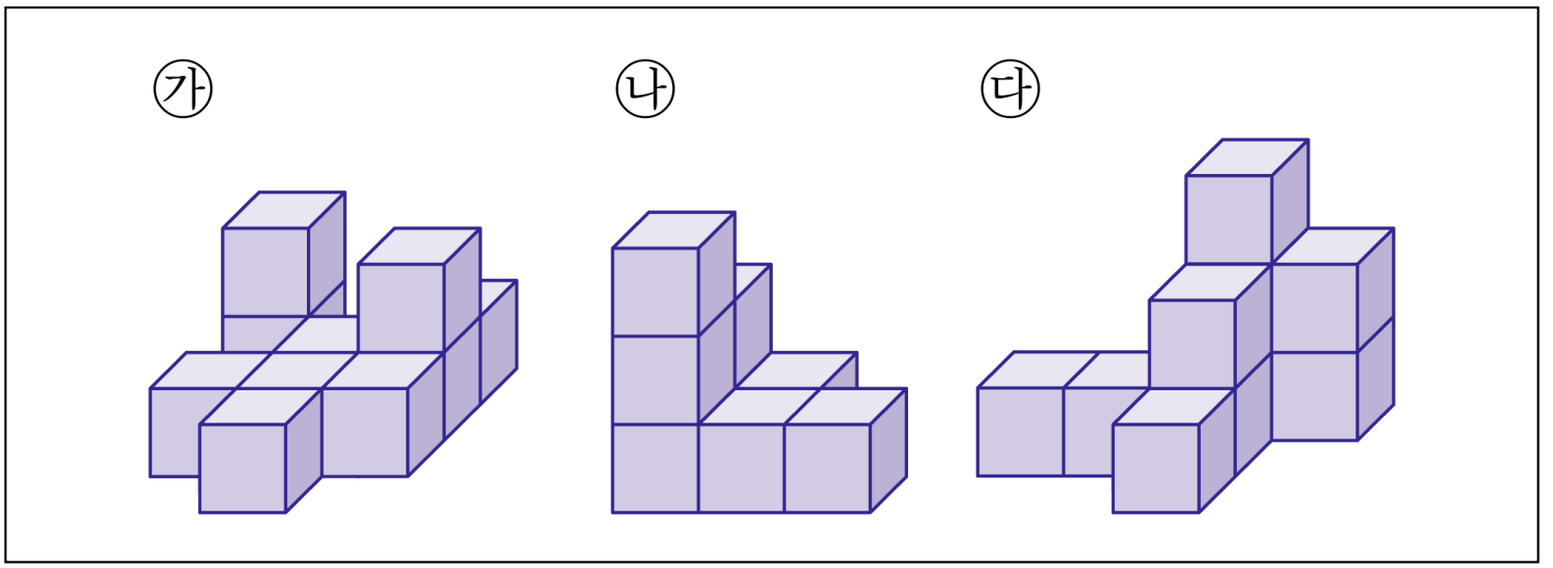
② 

③ 

④ 

⑤ 

16. 아래 그림에 대한 설명으로 옳지 <u>않은</u> 것은 어느 것인지 고르시오.



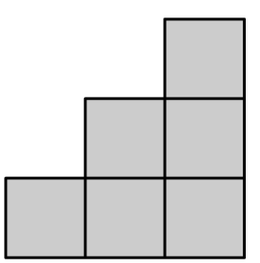
① ㉮에서 사용된 쌓기나무는 모두 10개입니다.

② ㉯를 개수로만 나타내면 입니다.

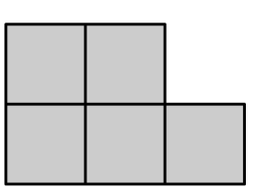
1	1	
2	1	
3	1	1

③ ㉰에서 사용된 쌓기나무는 모두 10개입니다.

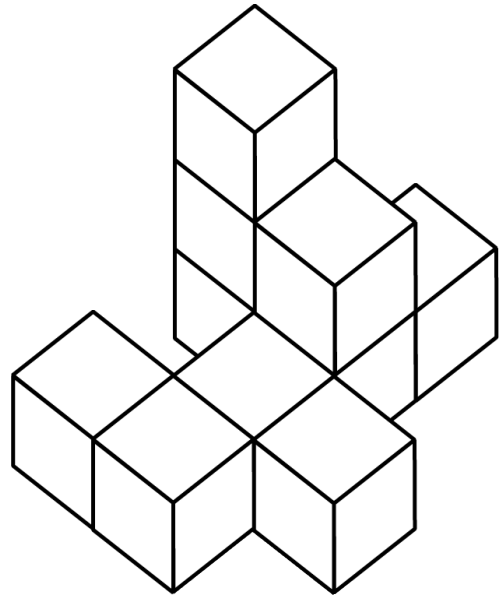
④ ㉰를 옆에서 본 모양으로 그리면 입니다.



⑤ ㉯를 위에서 본 모양을 그리면 입니다.



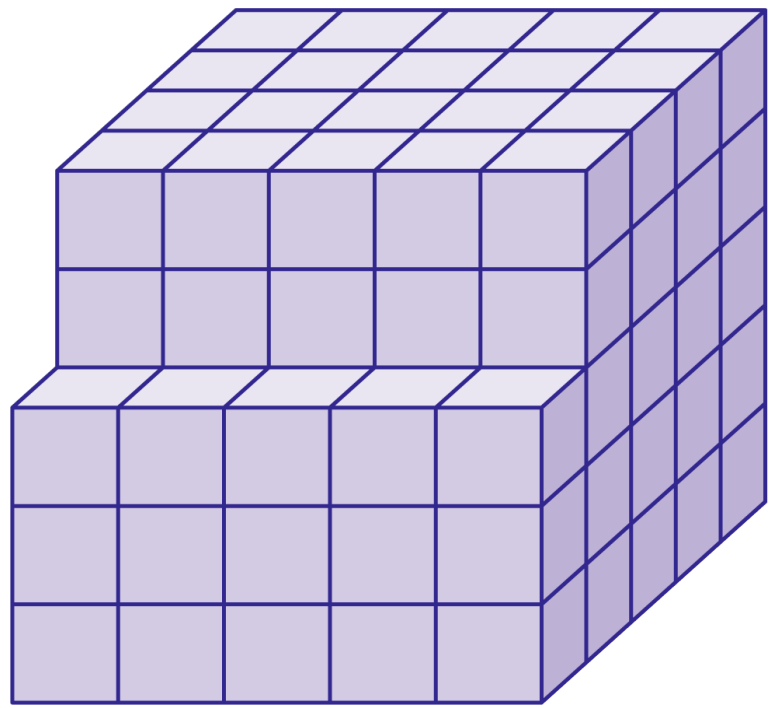
17. 다음 쌓기나무에서 위에서 본 모양이 변하지 않게 하는 조건으로 쌓기나무 한 개를 더 포함할 때 올릴 수 있는 방법은 몇 가지 입니까?



① 4가지 ② 5가지 ③ 6가지

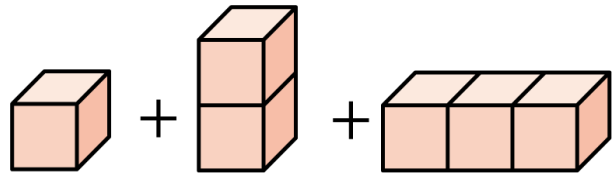
④ 7가지 ⑤ 8가지

18. 다음 그림과 같이 정육면체 모양의 쌓기나무 115 개를 빈틈없이 쌓아 놓고 바깥쪽의 모든 면을 색칠하였습니다. 쌓기나무를 하나씩 모두 떼어놓았을 때, 한 면도 색칠이 되지 않은 쌓기나무는 모두 몇 개입니까?

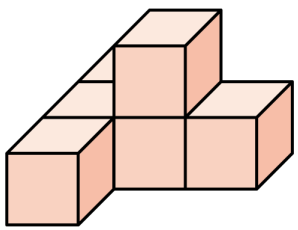


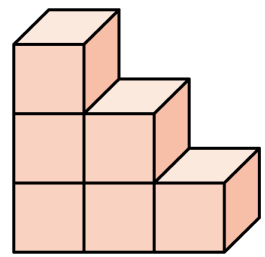
① 15 개 ② 18 개 ③ 24 개 ④ 27 개 ⑤ 30 개

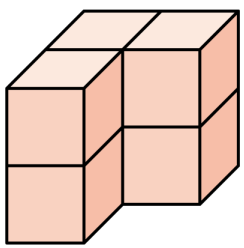
19.

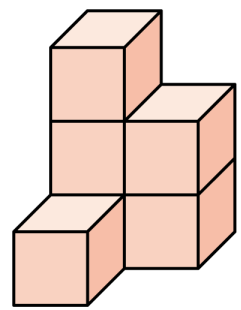


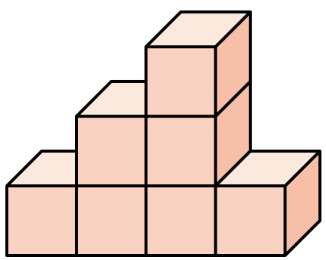
로 만들 수 없는 쌓기나무 모양을 모두 고르면?

① 

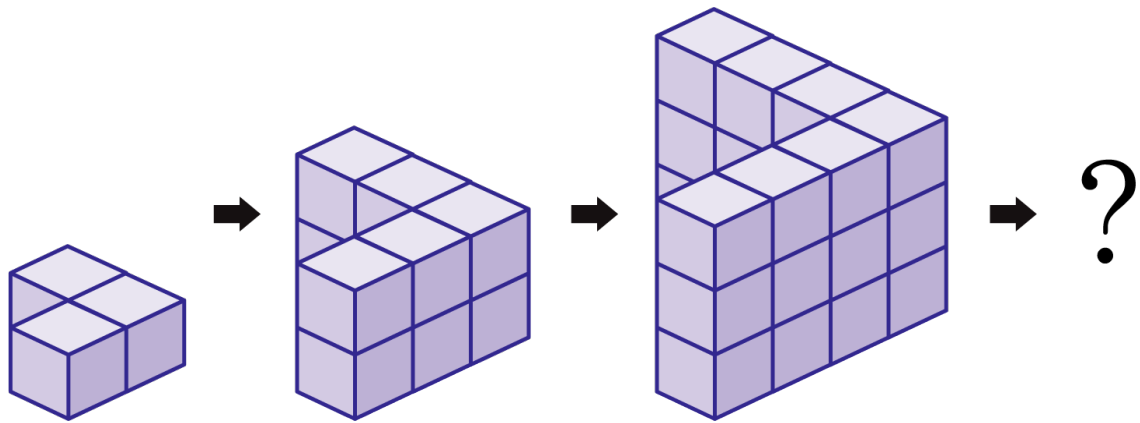
② 

③ 

④ 

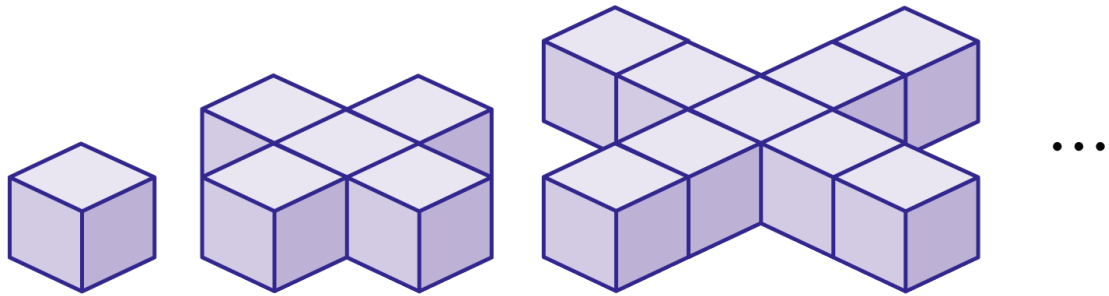
⑤ 

20. 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

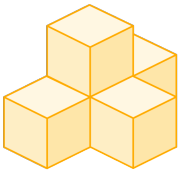
21. 다음과 같은 규칙에 따라 쌓기나무를 열째 번 모양까지 쌓으려고 할 때, 필요한 쌓기나무의 개수는 모두 몇 개 입니까?



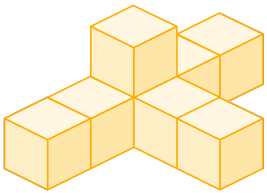
① 37 ② 152 ③ 186 ④ 190 ⑤ 194

22. 다음 쌓기나무 모양을 보고, 쌓기나무 50 개로 쌓은 모양은 몇째 번에 올 모양입니까?

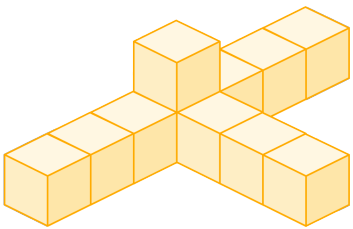
첫 째



둘 째



셋 째

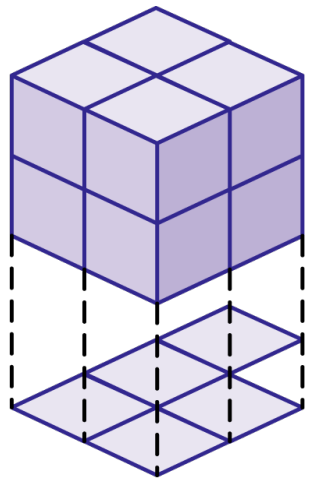


⋮ ⋮

① 12째 번 ② 14째 번 ③ 16째 번

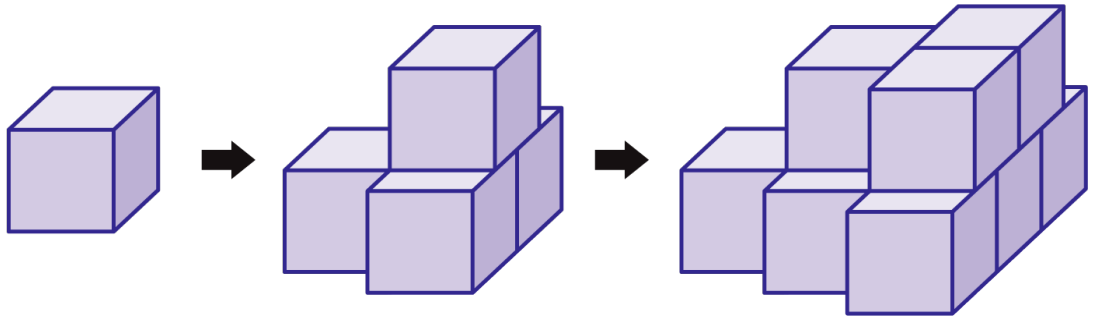
④ 18째 번 ⑤ 20째 번

23. 다음 그림을 유지하고, 몇 개의 쌓기나무를 더 쌓아 가장 작은 정육면체로 만들려고 합니다. 몇 개의 쌓기나무가 더 필요 합니까?



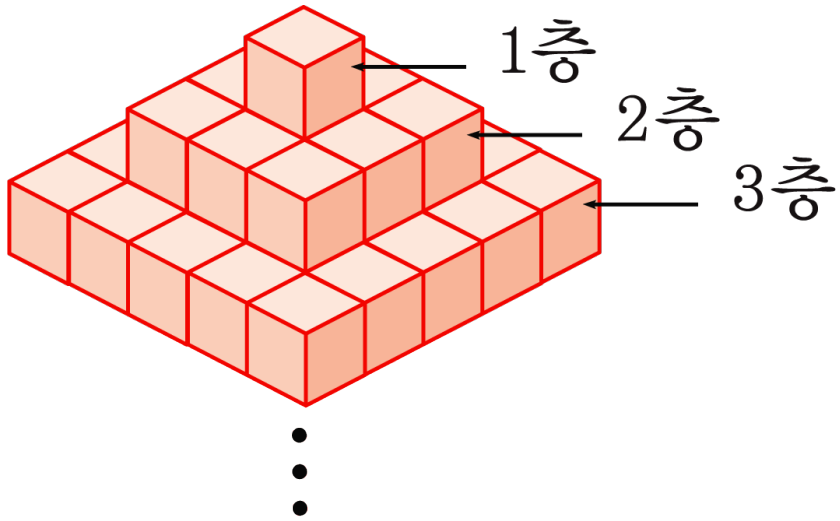
① 8 개 ② 10 개 ③ 16 개 ④ 18 개 ⑤ 27 개

24. 다음과 같은 규칙으로 쌓기나무를 쌓을 때, 아홉 번째의 쌓기나무 개수와 열 번째의 쌓기나무 개수와의 차는 어느 것입니까?



① 19개 ② 17개 ③ 15개 ④ 13개 ⑤ 11개

25. 다음 그림과 같은 규칙으로 8층까지 쌓는다면, 짝수 층의 쌓기나무는 모두 몇 개가 됩니까?(단, 가장 위의 블록을 1층으로, 가장 아래에 위치할 블록들을 8층으로 생각하여 문제를 풀도록 하세요.)



① 179개 ② 404개 ③ 276개

④ 225개 ⑤ 169개