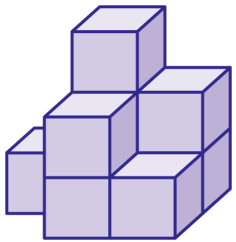
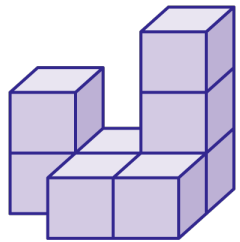
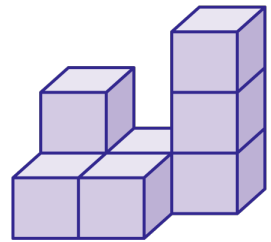
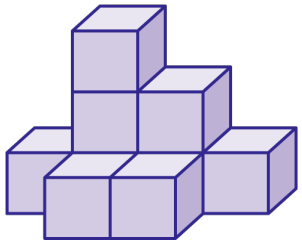
1. 다음 그림은 어떤 모양을 만드는 데 필요한 쌓기나무의 개수를 나타낸 것입니다. 다음 그림이 나타내는 모양을 찾으시오.

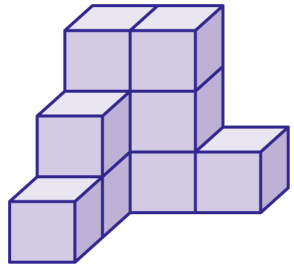
1	3	2	1
0	1	1	0

① 

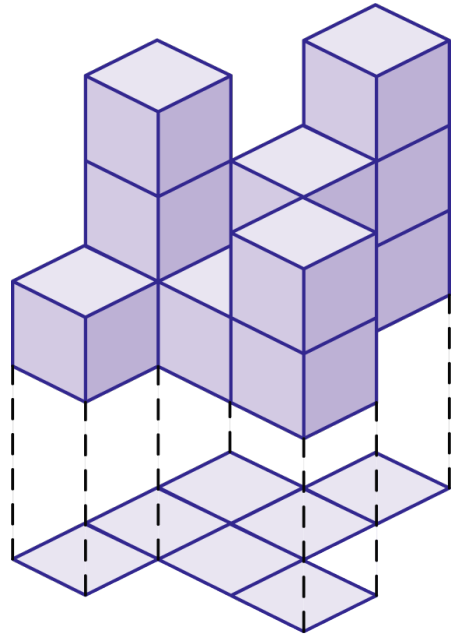
② 

③ 

④ 

⑤ 

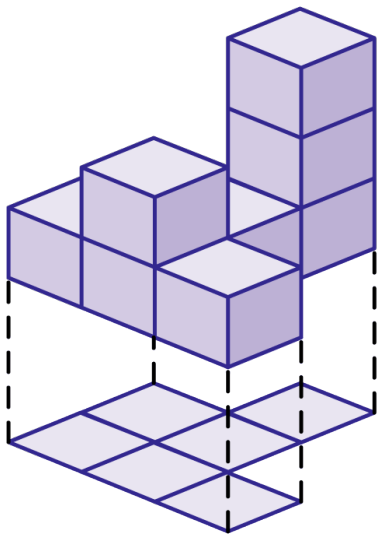
2. 다음 13 개의 쌓기나무 중 2 층의 쌓기나무를 모두 빼면 몇 개의 쌓기나무가 남습니까?



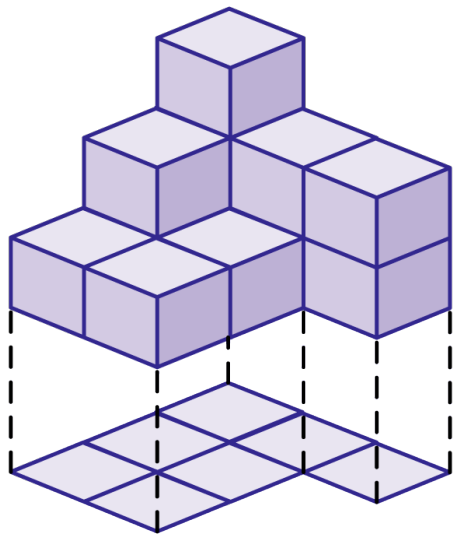
① 6 개 ② 7 개 ③ 8 개 ④ 9 개 ⑤ 10 개

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

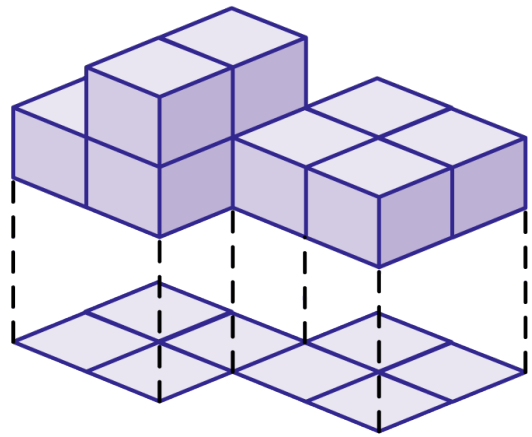
㉠



㉡



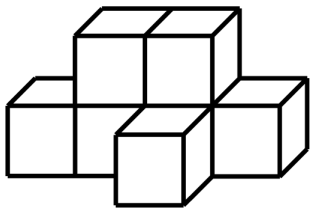
㉢

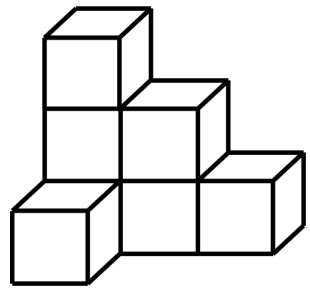


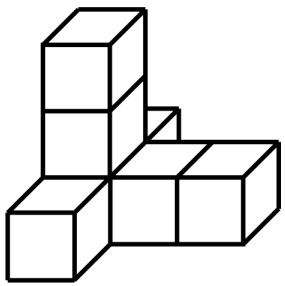
① ㉢,㉠,㉡ ② ㉡,㉢,㉠ ③ ㉠,㉡,㉢

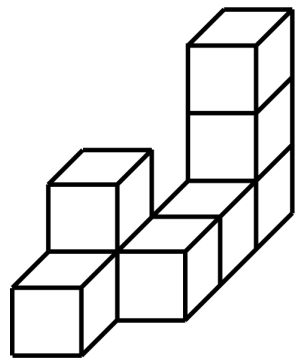
④ ㉢,㉡,㉠ ⑤ ㉠,㉢,㉡

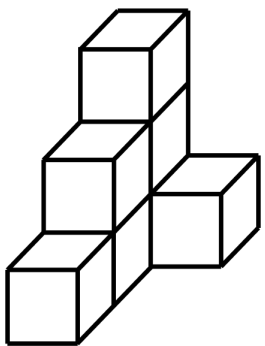
4. 다음은 여러 개의 쌓기나무를 이용하여 만든 모양입니다. 사용된 쌓기나무의 개수가 다른 것은 어느 것인지 고르시오.

① 

② 

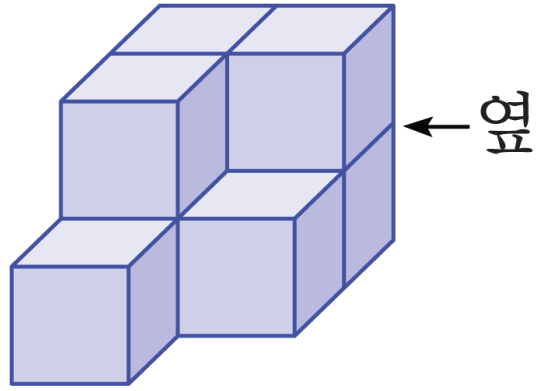
③ 

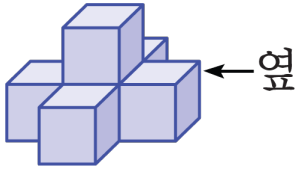
④ 

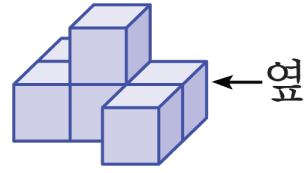
⑤ 

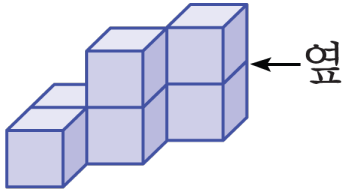
5. 오른쪽 옆에서 본 모양이 보기와 같은 것을 고르시오.

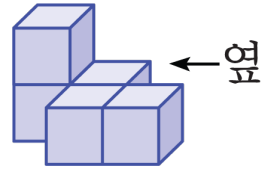
보기

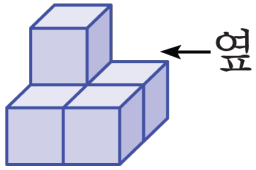


① 

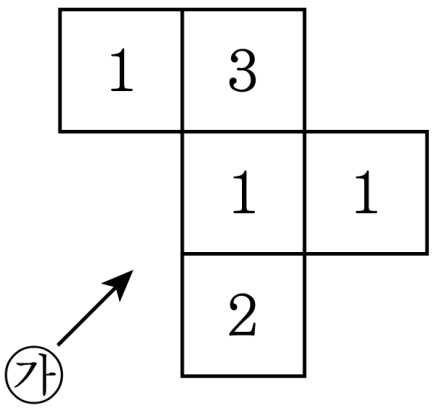
② 

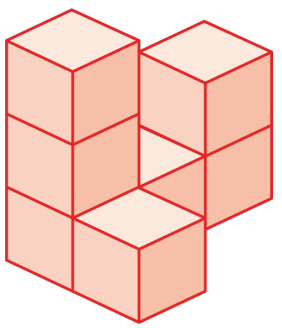
③ 

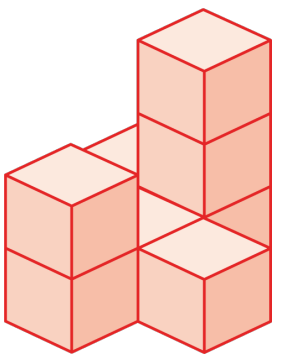
④ 

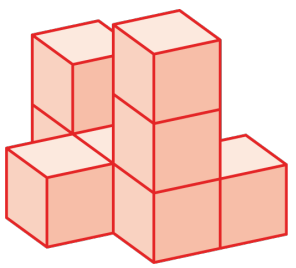
⑤ 

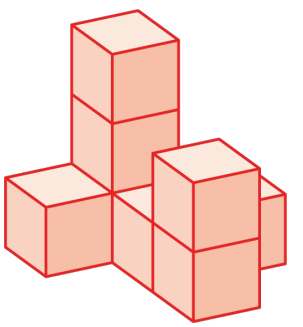
6. 아래 그림에서 □ 안에 있는 수는 그 위에 쌓기나무의 개수를 나타낸 것입니다. ㉮ 방향에서 바라 본 모양은 어느 것입니까?

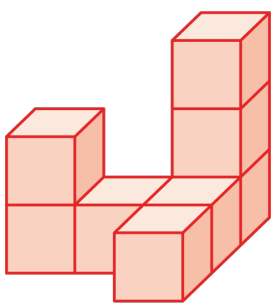


① 

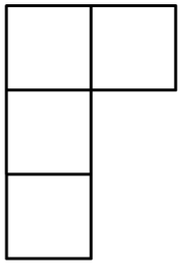
② 

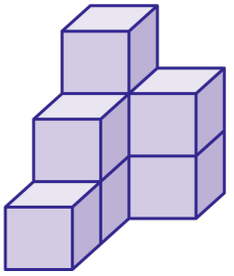
③ 

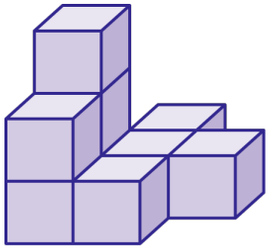
④ 

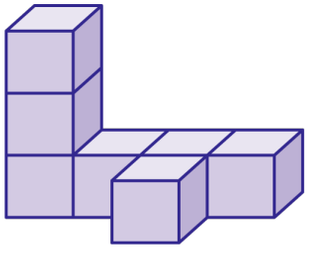
⑤ 

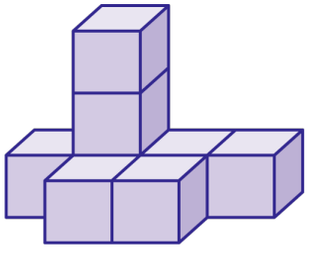
7. 다음이 설명하는 모양을 찾으시오.

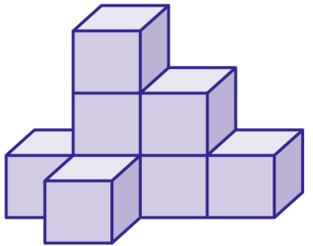
· 전체 3층으로 이루어져 있습니다.
· 8개의 쌓기나무를 사용하였습니다.
· 1층에는 4개의 쌓기나무를 사용하였습니다.
· 위에서 본 모양은  과 같습니다.

① 

② 

③ 

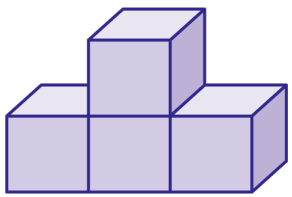
④ 

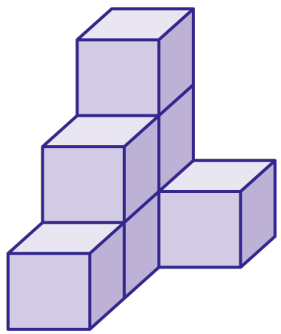
⑤ 

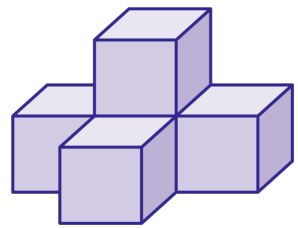
8. 보기의 ☐ 안에 있는 수만큼 쌓기나무를 쌓은 그림을 찾으시오.

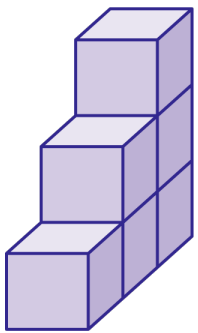
보기

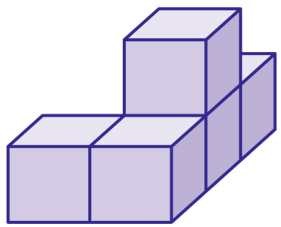
3	1
2	
1	

① 

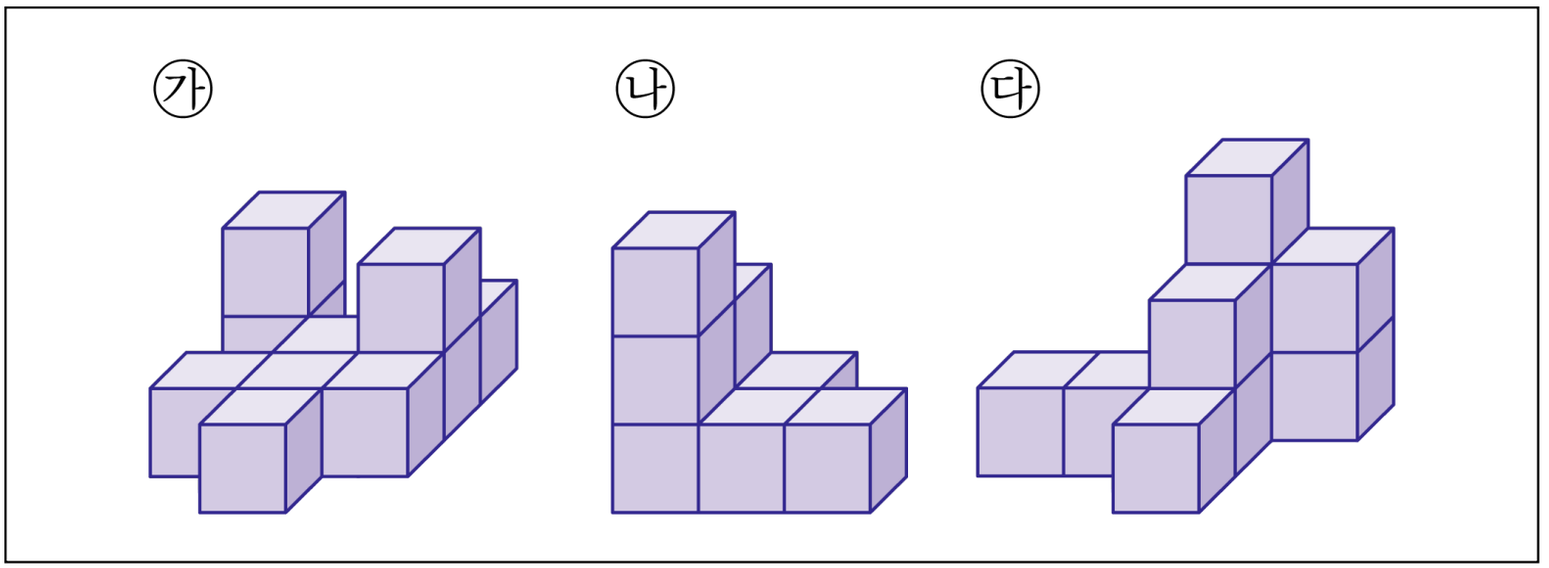
② 

③ 

④ 

⑤ 

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



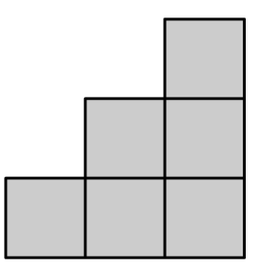
① ㉮에서 사용된 쌓기나무는 모두 10개입니다.

② ㉯를 개수로만 나타내면 입니다.

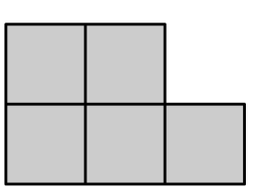
1	1	
2	1	
3	1	1

③ ㉰에서 사용된 쌓기나무는 모두 10개입니다.

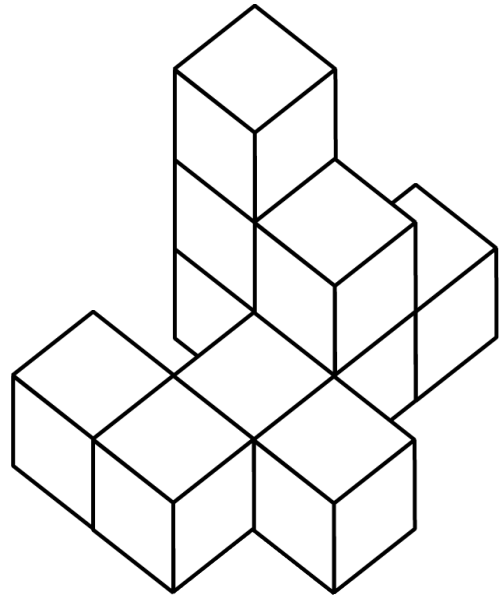
④ ㉰를 옆에서 본 모양으로 그리면 입니다.



⑤ ㉯를 위에서 본 모양을 그리면 입니다.



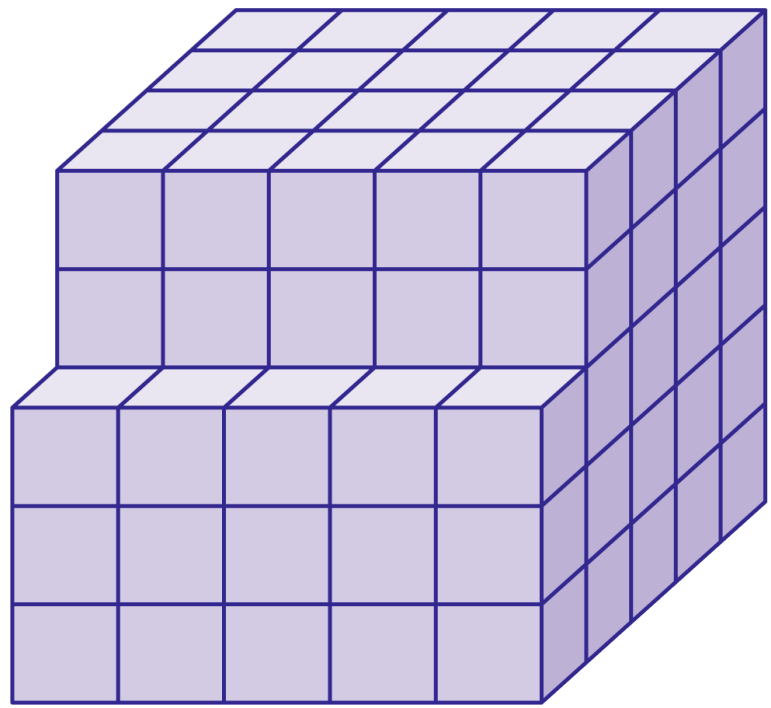
10. 다음 쌓기나무에서 위에서 본 모양이 변하지 않게 하는 조건으로 쌓기나무 한 개를 더 포함할 때 올릴 수 있는 방법은 몇 가지 입니까?



① 4가지 ② 5가지 ③ 6가지

④ 7가지 ⑤ 8가지

11. 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