

1. 다음 바탕 그림의 각 칸에 쓰여진 수만큼 쌓기나무를 쌓을 때, 3 층에 놓이는 쌓기나무는 몇 개입니까?

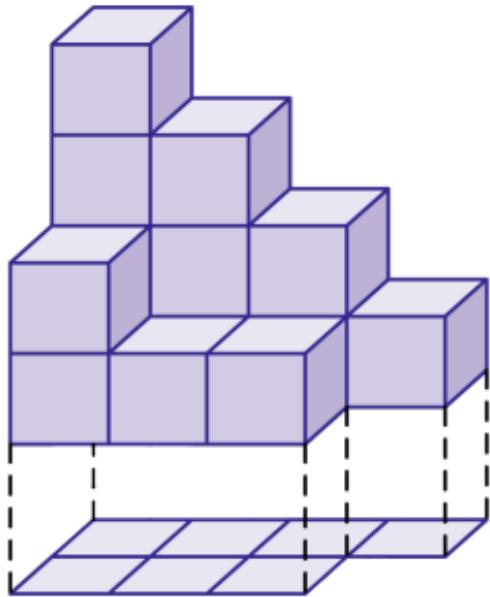
1		
3	2	
1	4	3
5	2	



답:

개

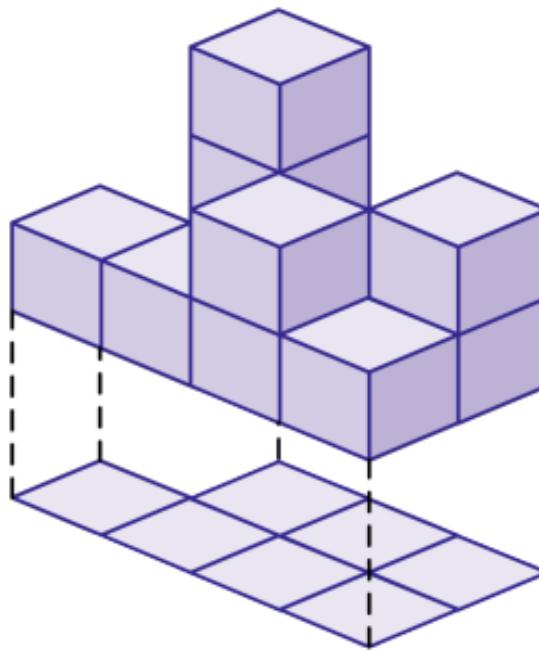
2. 그림과 같은 모양을 만들기 위해 필요한 쌓기나무는 모두 몇 개입니까?



답:

개

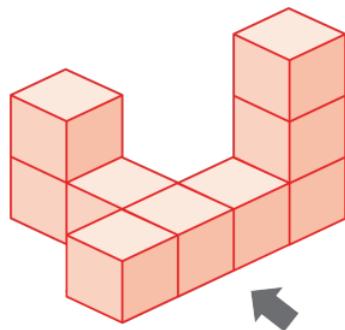
3. 다음 그림과 같은 모양을 만들기 위해서 쌓기나무가 몇 개 필요합니까?



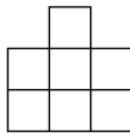
답:

개

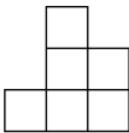
4. 다음 쌓기나무를 옆에서 본 모양은 어느 것입니까?



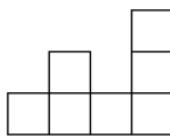
①



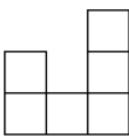
②



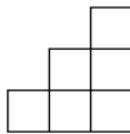
③



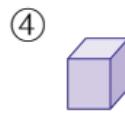
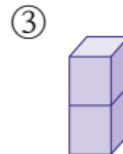
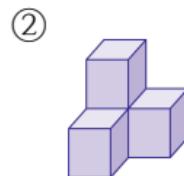
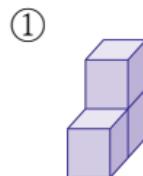
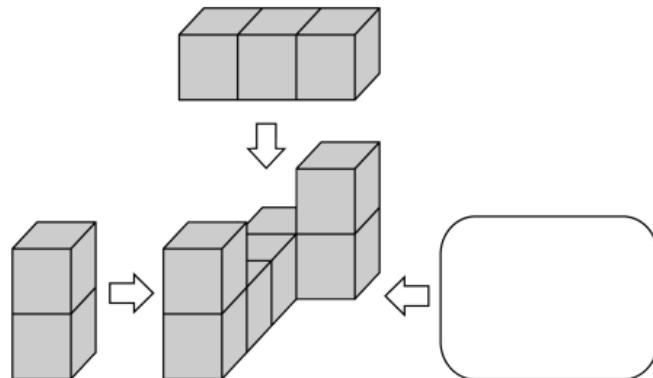
④



⑤

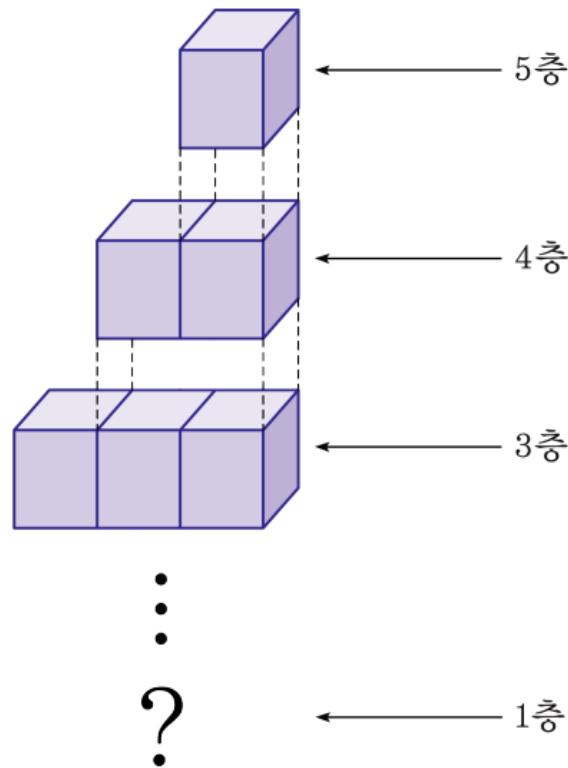


5. 아래 모양을 몇 개의 부분으로 나누어 쌓으려고 할 때, 빈 칸에 들어갈 모양은 어느 것인가?



⑤ 답 없음

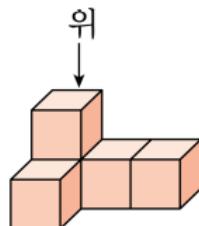
6. 규칙에 따라 쌓기나무를 쌓는다면, 1층의 쌓기나무는 몇 개입니까?



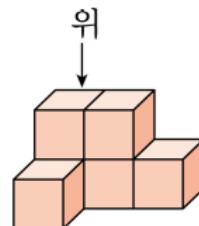
답: _____ 개

7. 다음은 쌓기나무로 쌓은 모양입니다. 위에서 본 모양이 다른 하나는 어느 것입니까?

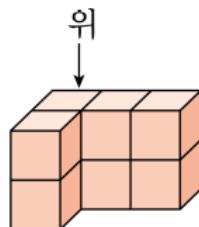
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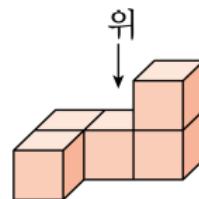
②



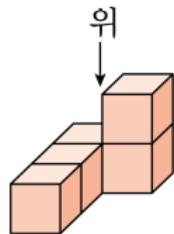
③



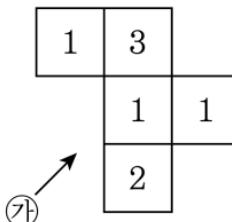
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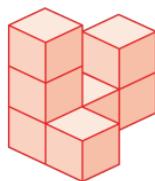
⑤



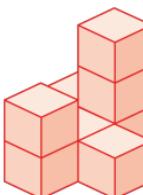
8. 아래 그림에서 \square 안에 있는 수는 그 위에 쌓기나무의 개수를 나타낸 것입니다. ⑦ 방향에서 바라 본 모양은 어느 것입니까?



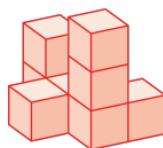
①



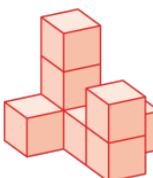
②



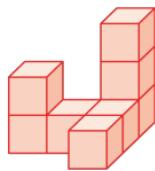
③



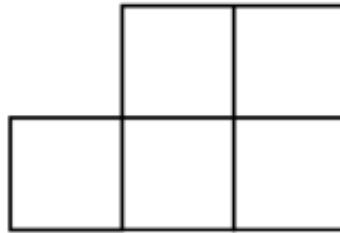
④



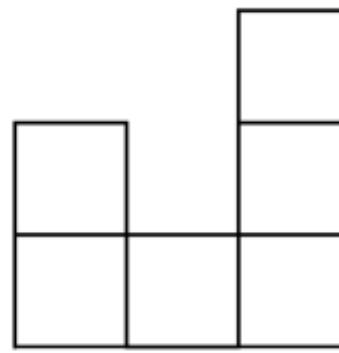
⑤



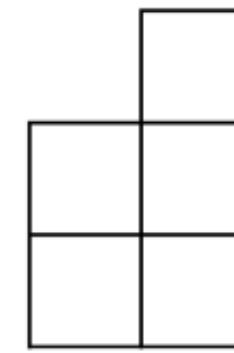
9. 쌓기나무로 위, 앞, 옆에서 본 모양이 아래와 같도록 만들려고 합니다.
쌓기나무는 최대한 몇 개 필요한지 구하시오.



위



앞



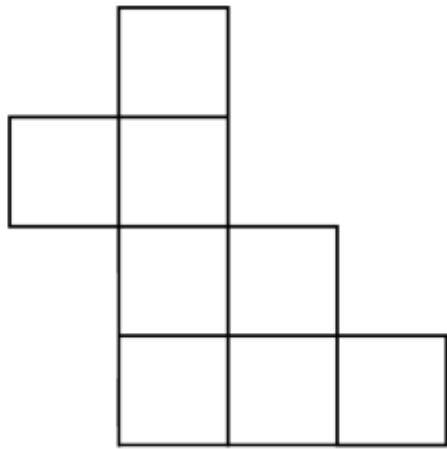
옆(오른쪽)



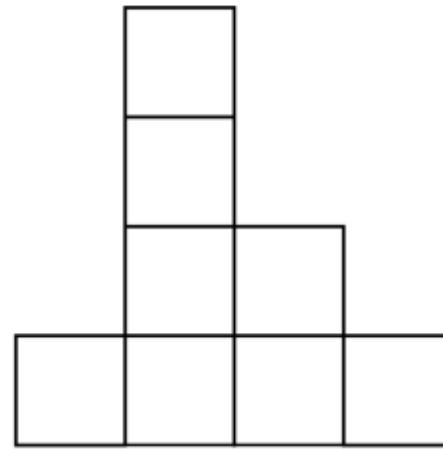
답:

개

10. 쌓기나무를 가장 적게 이용하여 위와 앞에서 본 모양이 각각 다음과 같도록 만들려면 필요한 쌓기나무는 몇 개인지 구하시오.



위



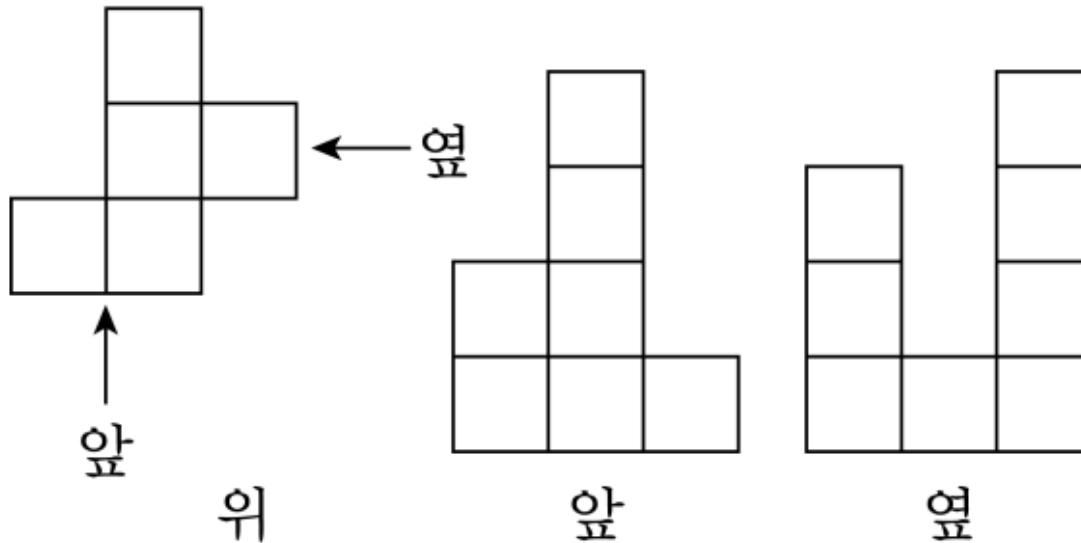
앞



답:

개

11. 위, 앞, 옆에서 본 모양이 다음과 같이 되도록 쌓기나무를 쌓았습니다.
사용한 쌓기나무는 모두 몇 개입니까?

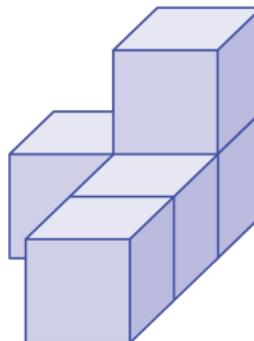


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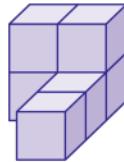
개

12. 보기와 모양이 같은 것을 찾으시오.

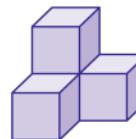
보기



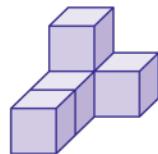
①



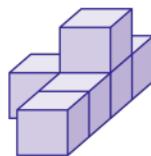
②



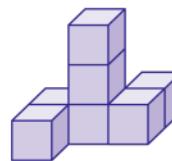
③



④

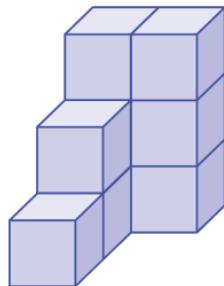


⑤

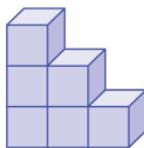


13. 보기와 같은 모양을 찾으시오.

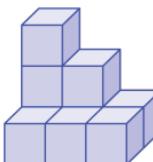
보기



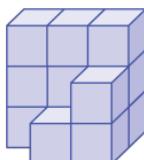
①



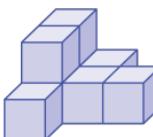
②



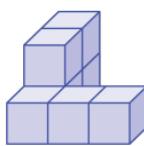
③



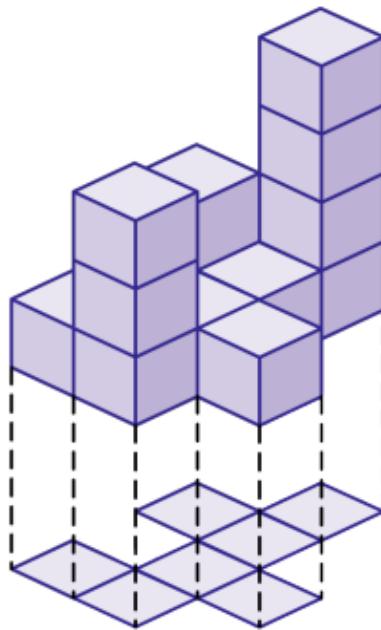
④



⑤



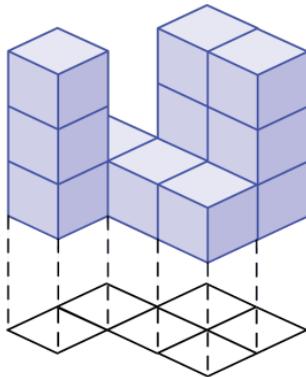
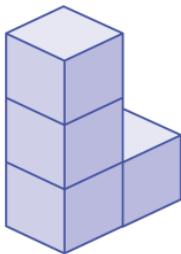
14. 쌓기나무 20개로 아래 모양을 쌓으면 몇 개가 남습니까?



답: _____ 개

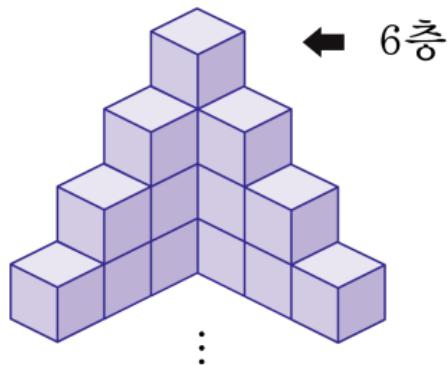
15. 다음 <보기>의 모양 몇 개를 사용하여 다음과 같은 모양을 만들 수 있겠습니까?

[보기]



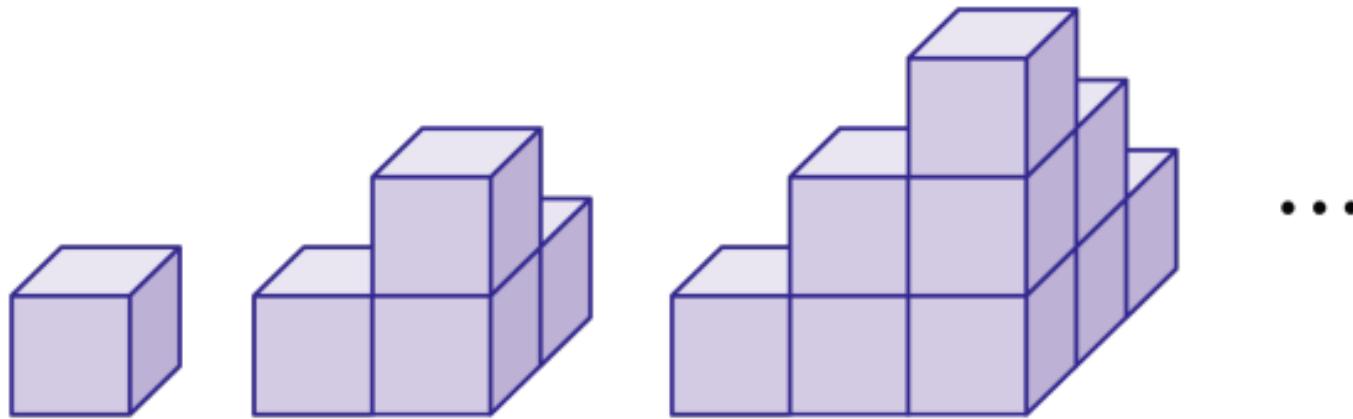
답: _____ 개

16. 다음 그림과 같은 규칙으로 쌓기나무를 쌓으려고 합니다. 쌓기나무 규칙으로 알맞은 것은 어느 것입니까?



- ① 한 층씩 쌓을 때마다 한 개씩 줄어듭니다.
- ② 한 층씩 쌓을 때마다 엇갈리며 쌓여 있습니다.
- ③ 쌓기나무가 아래로 내려갈수록 2개씩 늘어납니다.
- ④ 쌓기나무가 아래로 내려갈수록 2개씩 줄어듭니다.
- ⑤ 쌓기나무가 아래로 내려갈수록 1개씩 늘어납니다.

17. 규칙에 따라 쌓기나무를 쌓을 때 11째 번 모양에는 쌓기나무 몇 개가 사용되었는가?



답: _____ 개

18. 바탕 그림의 안의 수는 각 자리에 놓인 쌍기나무의 수를 나타냅니다. 일정한 규칙에 따라 쌍기나무를 쌓을 때, 7째 번에 놓인 쌍기나무의 개수는 모두 몇 개인지 구하시오.

A diagram illustrating a transformation rule. On the left is a 2x3 grid with rows labeled 1 and 2, and columns labeled 0 and 1. The cells contain the values 1, 0, 1 in the top row and 0, 2 in the bottom row. An arrow points to the right, leading to a 3x3 grid. This 3x3 grid has rows labeled 1, 2 and columns labeled 1, 2. The cells contain the values 1, 1, 2 in the top row, 2, 3 in the middle row, and an empty cell in the bottom-right corner.

1	0	1
0	2	

An arrow points from the 3x3 grid to a larger 4x3 grid. The 3x3 grid has rows labeled 1, 2 and columns labeled 1, 2. The cells contain the values 1, 2, 4 in the top row, 4, 4 in the middle row, and an empty cell in the bottom-right corner. An arrow points to the right, leading to the 4x3 grid. This 4x3 grid has rows labeled 1, 2 and columns labeled 1, 2. The cells contain the values 1, 3, 8 in the top row, 6, 5 in the middle row, and an empty cell in the bottom-right corner. Another arrow points to the right, followed by three dots (...).

1	2	4
4	4	

An arrow points from the 4x3 grid to a larger 5x3 grid. The 4x3 grid has rows labeled 1, 2 and columns labeled 1, 2. The cells contain the values 1, 3, 8 in the top row, 6, 5 in the middle row, and an empty cell in the bottom-right corner. An arrow points to the right, followed by three dots (...).

1	3	8
6	5	

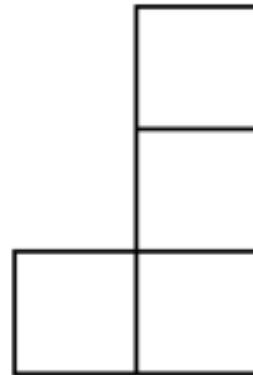
...



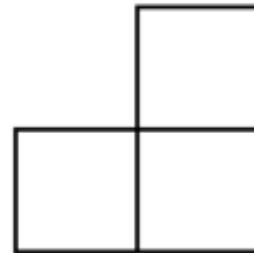
답:

개

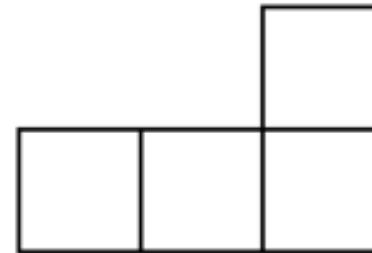
19. 위, 앞, 옆에서 본 모양이 다음과 같도록 쌓기나무로 만들려고 합니다.
쌓기나무는 모두 몇 개가 필요한지 구하시오.



위



앞

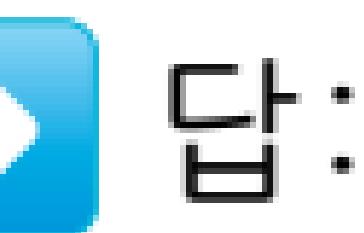


옆(오른쪽)



답: _____ 개

20. 125개의 쌍기나무로 정육면체 모양을 만든 뒤 모든 면에 빨간색을 칠했습니다. 2개의 면에 색이 칠해진 쌍기나무는 몇 개입니까?



답:

개