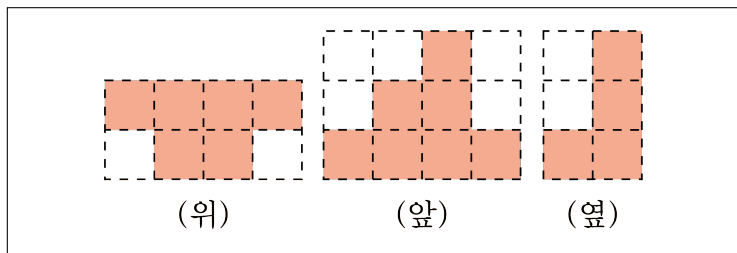
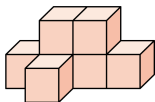


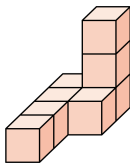
1. 다음은 쌓기나무로 쌓은 모양을 위, 앞, 옆에서 본 모양대로 그린 것입니다. 어떤 모양을 그린 것입니까?



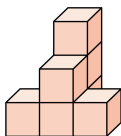
①



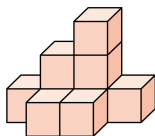
②



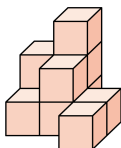
③



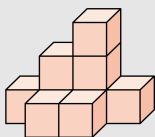
④



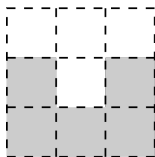
⑤



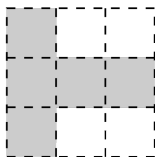
해설



2. 다음은 쌓기나무로 쌓은 모양을 앞, 위, 옆에서 본 모양대로 그린 것입니다. 어떤 모양인지 고르시오.



(앞)

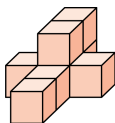


(위)

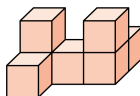


(옆)

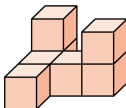
①



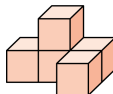
②



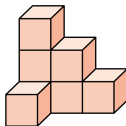
③



④



⑤



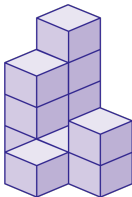
해설

위치에 따른 쌓기 나무를 잘 살펴 봅니다.

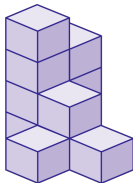
3. 왼쪽의 바탕 그림 위에 안에 있는 수만큼 쌓기 나무를 쌓으면 어떤 모양이 되겠습니까?

4		
3	2	1
	1	

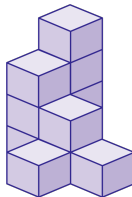
①



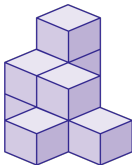
②



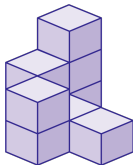
③



④



⑤



해설

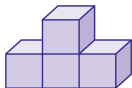
바탕 그림 위의 쌓기나무의 수에 맞는 모양을 찾습니다.

4. 보기의 안에 있는 수만큼 쌓기나무를 쌓은 그림을 찾으시오.

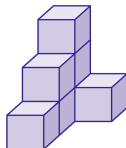
보기

3	1
2	
1	

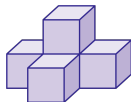
①



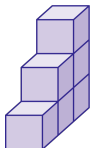
②



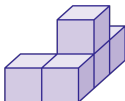
③



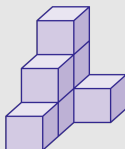
④



⑤



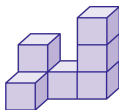
해설



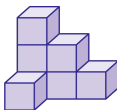
5. 다음은 어떤 모양의 쌓기나무를 쌓는 데 필요한 쌓기나무의 개수를 나타낸 것입니다. 쌓기나무의 모양을 찾으시오.

2	1	3
1	0	0

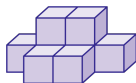
①



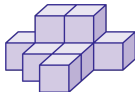
②



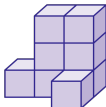
③



④



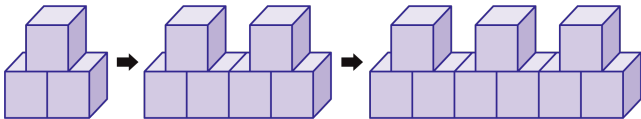
⑤



해설

쌓기나무가 위치에 맞게 쌓아졌는지 봅니다.

6. 다음과 같은 규칙에 따라 쌓기나무를 쌓았을 때, 열네번 째의 쌓기나무의 개수를 구하시오.



① 33

② 36

③ 39

④ 42

⑤ 45

해설

첫번 째 : $1 \times 3 = 3$

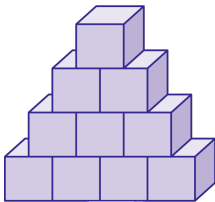
두번 째 : $2 \times 3 = 6$

세번 째 : $3 \times 3 = 9$

⋮

3개씩 늘어나는 규칙이므로 열네번 째 쌓기나무의 수는 $14 \times 3 = 42$ (개)입니다.

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



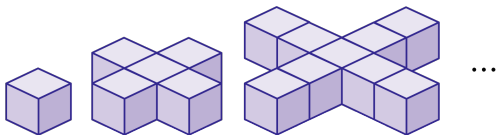
- ① 10개 ② 44개 ③ 45개 ④ 54개 ⑤ 55개

해설

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

$$5 + 6 + 7 + 8 + 9 + 10 = 45(\text{개}) \text{입니다.}$$

8. 다음과 같은 규칙에 따라 쌓기나무를 열째 번 모양까지 쌓으려고 할 때, 필요한 쌓기나무의 개수는 모두 몇 개입니까?



① 37

② 152

③ 186

④ 190

⑤ 194

해설

그림의 쌓기나무는 1-5-9-... 로 4개씩 커지는 규칙을 가지고 있습니다.

따라서 열째 번까지 쌓을 때 필요한 쌓기나무의 수는

$$1 + 5 + 9 + 13 + 17 + 21 + 25 + 29 + 33 + 37 = 38 \times 5 = 190$$

따라서 190개입니다.