

1. 왼쪽 모양을 어떻게 하여 이어 붙이면 오른쪽 무늬가 되겠는지 구하시오.



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2. 밑기를 이용하여 만든 무늬와 뒤집기를 이용하여 만든 무늬가 같은 모양은 어느 것입니까?

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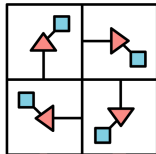
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3. 오른쪽의 무늬는 왼쪽의 모양을 한 가지 방법으로 움직여서 만든 무늬입니다. 어떻게 움직여서 만든 것입니까?



① 밀기

② 뒤집기

③ 돌리기

④ 밀고 뒤집기

⑤ 뒤틀기

4. 다음은 각각의 모양을 같은 규칙으로 움직여서 새로운 무늬를 만든 것입니다. 규칙이 다른 하나는 어느 것인지 고르시오.

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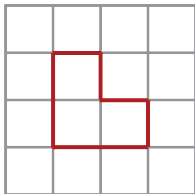
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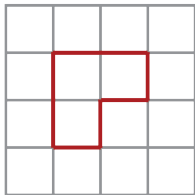
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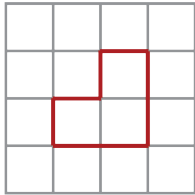
5. 도형을 시계 방향으로 90° 만큼 돌렸을 때의 도형을 가, 나 중 고르시오.



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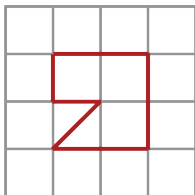


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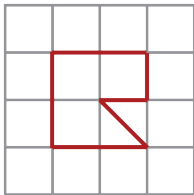


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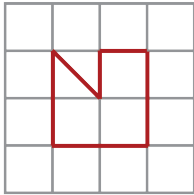
6. 도형을 시계 반대 방향으로 270° 만큼 돌렸을 때의 도형을 가, 나 중 고르시오.



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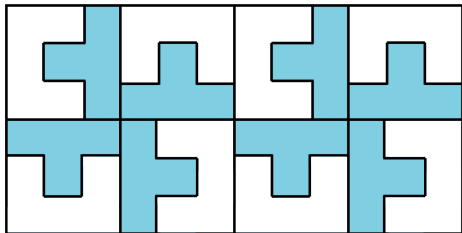


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7. 풍차의 날개 부분의 모양을 만드는 방법으로 가장 알맞은 것은 어느 것인지 고르시오.

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|-----------|----------|-----------|
| ① 겹치고 뒤틀기 | ② 뒤집고 밀기 | ③ 뒤집고 돌리기 |
| ④ 돌리기 | ⑤ 밀기 | |

8. 다음 무늬는 어떤 모양을 돌리기 한 것입니까?



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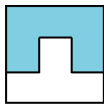
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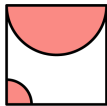
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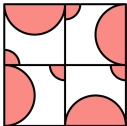
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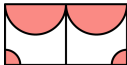
9. 다음 모양을 밀기, 뒤집기, 돌리기를 하여 이어 붙여서 무늬를 만들 때, 만들 수 없는 무늬는 어느 것입니까?



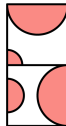
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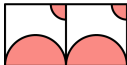
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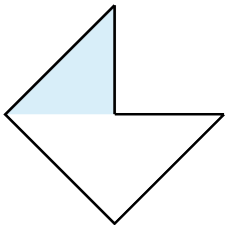
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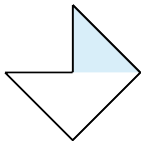
10. 다음 도형을 위쪽으로 밀었을 때의 도형은 어느 것입니까?



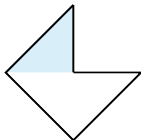
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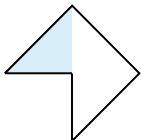
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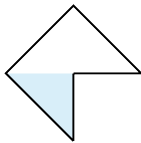
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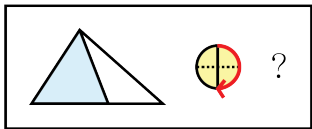
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11. 모양 조각을 시계 방향으로 180° 만큼 돌렸을 때의 모양은 어느 것입니까?



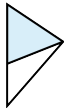
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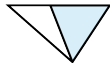
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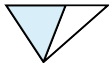
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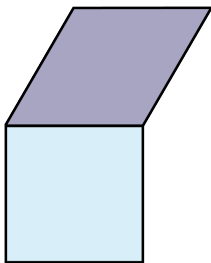
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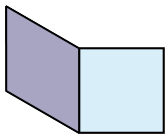
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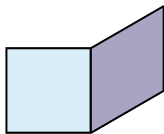
12. 도형을 아래쪽으로 6번 뒤집고 시계 방향으로 180° 만큼 3번 돌렸을 때의 도형은 어느 것입니까?



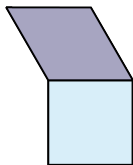
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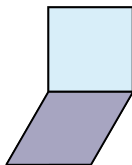
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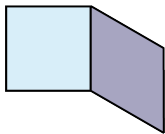
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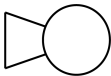


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13. 다음 중 뒤집기 하여 같은 무늬를 얻을 수 있는 것은 어느 것입니까?

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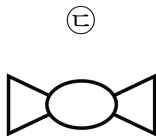
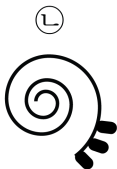
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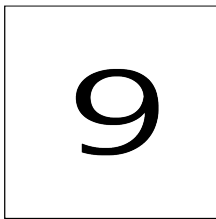
14. 다음 무늬를 보고, 뒤집기와 180° 로 돌리기 하여 똑같은 무늬를 얻을 수 없는 것을 고르시오.



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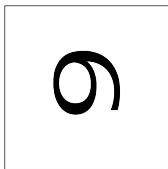
15. 다음 숫자 카드를 아래로 밀었을 때의 모양은 어느 것입니까?



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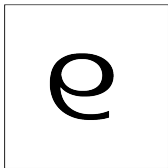
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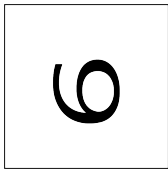
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16. 다음 도형 중에서 왼쪽으로 뒤집었을 때의 도형이 처음 도형과 같은 것을 모두 찾아 기호를 쓰시오.

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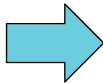
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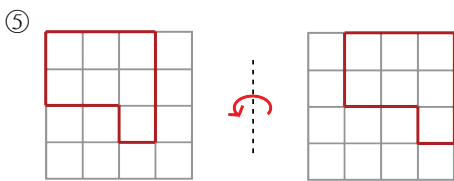
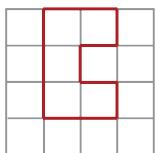
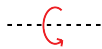
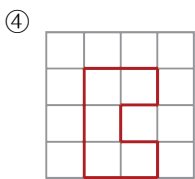
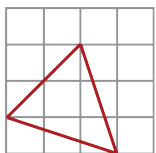
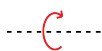
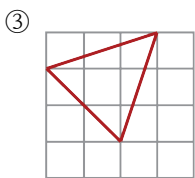
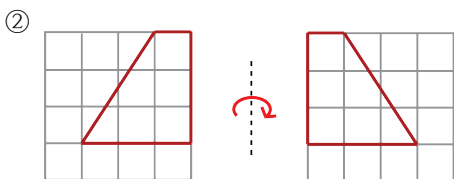
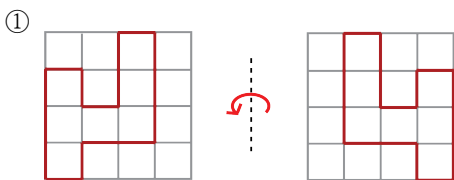


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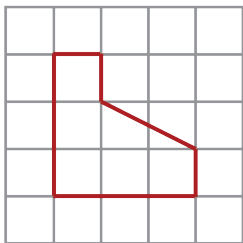


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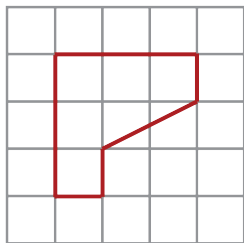
17. 다음 중 도형을 뒤집은 모양이 옳지 않은 것은 어느 것입니까?



18. 왼쪽 도형을 움직여 오른쪽 도형이 되었을 때, 이동으로 알맞은 것을 모두 고르시오.



처음 도형



움직인 도형

- ㉠ 오른쪽으로 밀고 위쪽으로 뒤집기
- ㉡ 아래로 밀고 오른쪽으로 뒤집기
- ㉢ 시계 반대 방향으로 90° 돌리고 아래쪽으로 뒤집기
- ㉣ 시계 방향으로 180° 돌리고 왼쪽으로 뒤집기

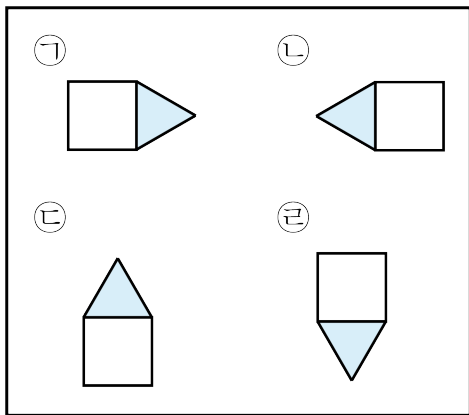
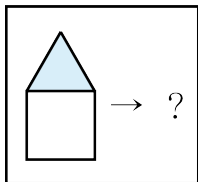


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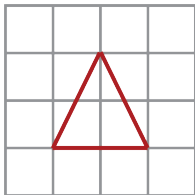
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19. 다음 모양 조각을 오른쪽으로 밀었을 때의 모양을 찾아 기호를 쓰시오.

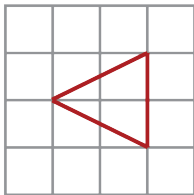


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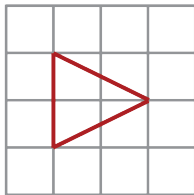
20. 도형을 시계 반대 방향으로 90° 만큼 돌렸을 때의 도형을 가, 나 중 고르시오.



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