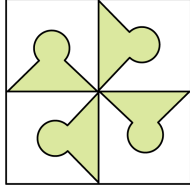


1. 다음 무늬는 어떤 한 가지 모양을 이어 붙여 만든 것입니다. 다음 중에서 어떤 규칙을 사용한 것입니까?



- ① 밀기                      ② 뒤집기                      ③ 돌리기  
④ 밀고 뒤집기              ⑤ 뒤집고 돌리기

2. 다음 무늬 중에서 돌리기를 할 때와 뒤집기를 할 때, 원래의 모양과 같은 모양이 되지 않는 무늬는 어느 것인지 모두 골라라.

①



②



③



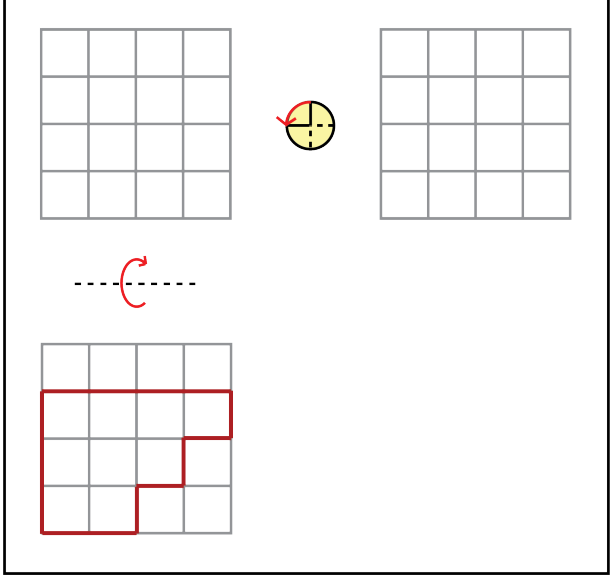
④



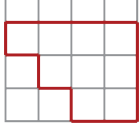
⑤



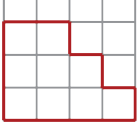
3. 도형을 위쪽으로 뒤집고 시계 반대 방향으로 90°만큼 돌렸을 때의 도형은 어느 것입니까?



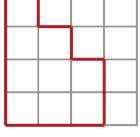
①



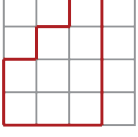
②



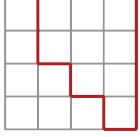
③



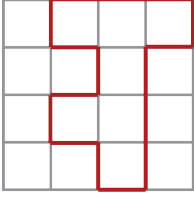
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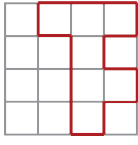
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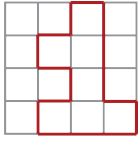
4. 도형을 아래쪽으로 뒤집고 시계 반대 방향으로 270°만큼 돌렸을 때의 도형은 어느 것입니까?



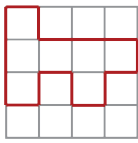
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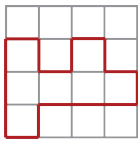
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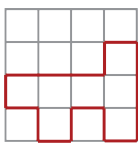
③



④



⑤

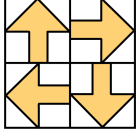




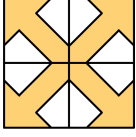
5. 보기의 모양을 돌리기 한 모양이 아닌 것을 고르시오.



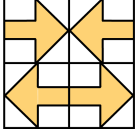
①



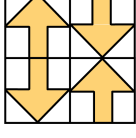
②



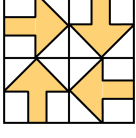
③



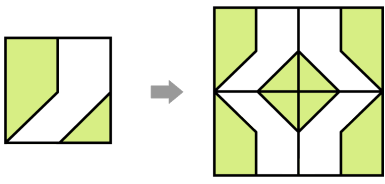
④



⑤

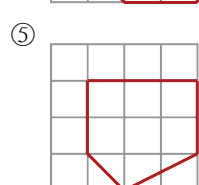
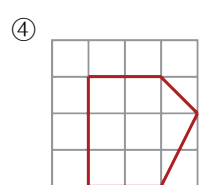
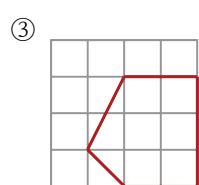
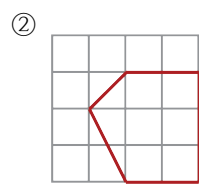
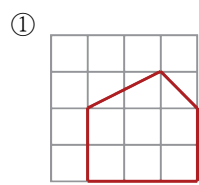
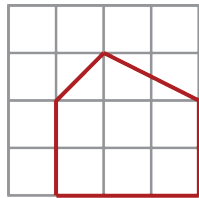


6. 다음 무늬들은 아래 모양을 어떻게 움직여서 만든 것인지 쓰시오.

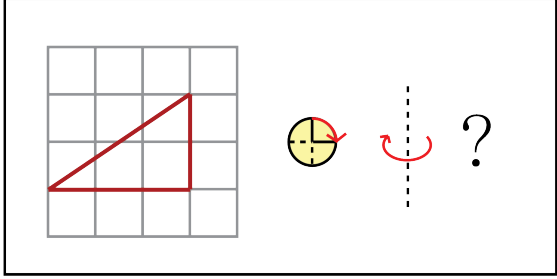


 답: \_\_\_\_\_

7. 도형을 시계 방향으로  $270^\circ$ 만큼 돌리고 위쪽으로 뒤집었을 때의 도형은 어느 것입니까?



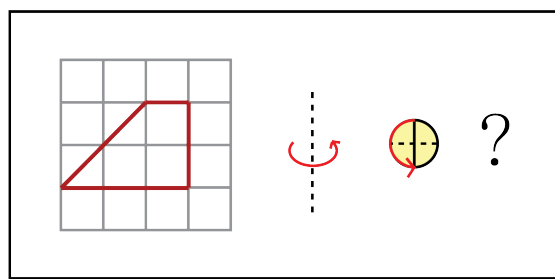
8. 도형을 시계 방향으로 90°만큼 돌리고 왼쪽으로 뒤집었을 때의 도형은 어느 것입니까?



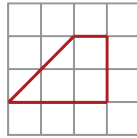
- ①
- ②
- ③
- ④
- ⑤



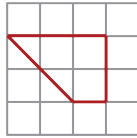
9. 도형을 오른쪽으로 뒤집고 시계 반대 방향으로 180°만큼 돌렸을 때의 도형은 어느 것입니까?



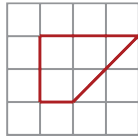
①



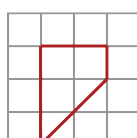
②



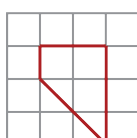
③



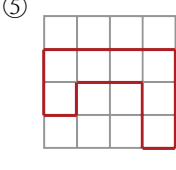
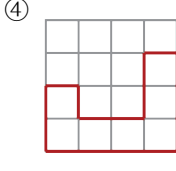
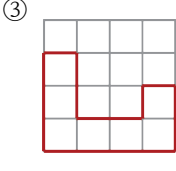
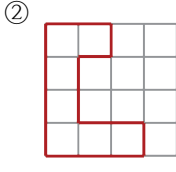
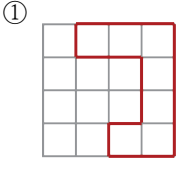
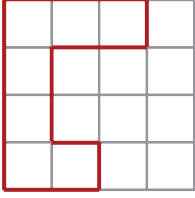
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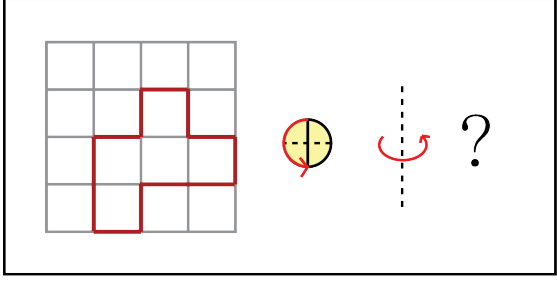
⑤



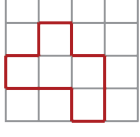
10. 도형을 아래쪽으로 뒤집고 시계 방향으로 180°만큼 돌렸을 때의 도형은 어느 것입니까?



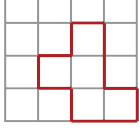
11. 도형을 시계 반대 방향으로 180°만큼 돌리고 오른쪽으로 뒤집었을 때의 도형은 어느 것입니까?



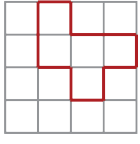
①



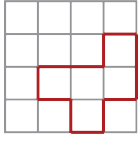
②



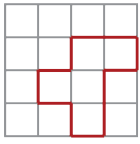
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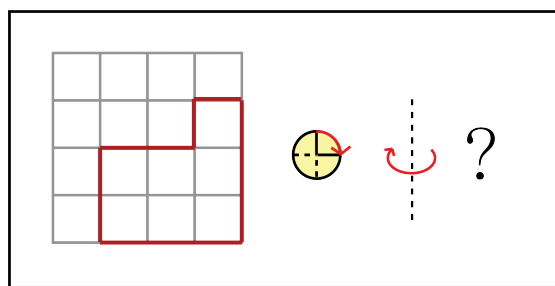
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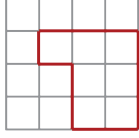
⑤



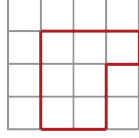
12. 도형을 시계 방향으로 90°만큼 돌리고 왼쪽으로 뒤집었을 때의 도형은 어느 것입니까?



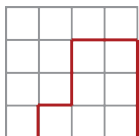
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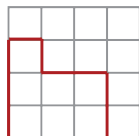
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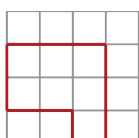
③



④

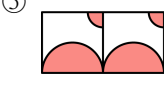
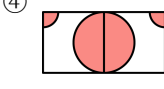
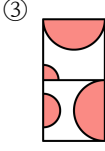
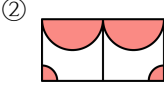
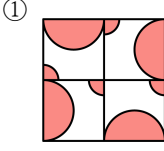
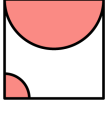


⑤

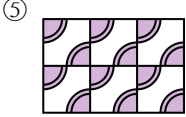
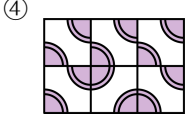
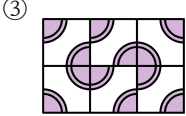
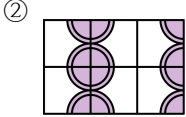
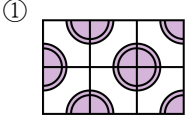
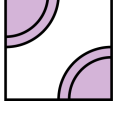




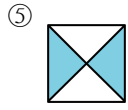
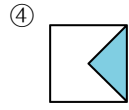
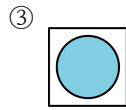
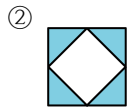
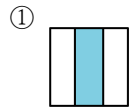
13. 다음 모양을 밀기, 뒤집기, 돌리기를 하여 이어 붙여서 무늬를 만들 때, 만들 수 없는 무늬는 어느 것입니까?



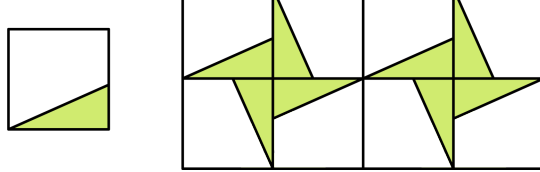
14. 다음 모양을 이어 붙여서 만들 수 없는 무늬는 어느 것입니까?



15. 다음 중 뒤집기 한 모양과 밑기 한 모양이 다르게 될 수 있는 것을 고르시오.



16. 다음 무늬 만들기에서 사용한 모든 방법을 고르시오.



① 밀기

② 밀기, 뒤집기

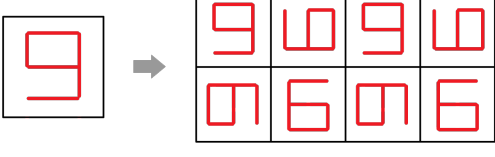
③ 뒤집기, 돌리기

④ 뒤집기

⑤ 밀기, 돌리기



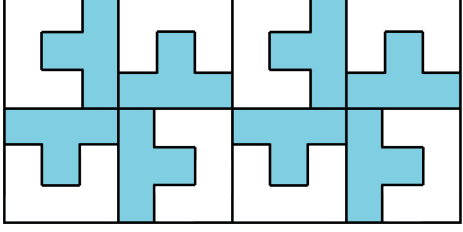
17. 왼쪽 모양을 어떻게 하여 이어 붙이면 오른쪽 무늬가 되겠는지 모두 쓰시오.



 답: \_\_\_\_\_

 답: \_\_\_\_\_

18. 다음 무늬는 어떤 모양을 돌리기 한 것입니까?



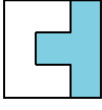
①



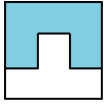
②



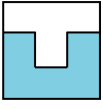
③



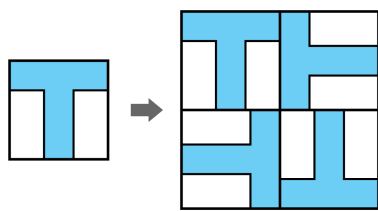
④



⑤



19. 오른쪽 무늬는 왼쪽의 모양을 한 가지 방법으로 움직여서 만든 무늬입니다. 어떻게 움직여서 만든 것입니까?



- ① 밀기                      ② 뒤집기                      ③ 돌리기  
④ 밀고 뒤집기            ⑤ 뒤틀기

20. 다음 모양을 돌리기 하여 나올 수 있는 모양이 아닌 것을 모두 고르시오.



①



②



③



④

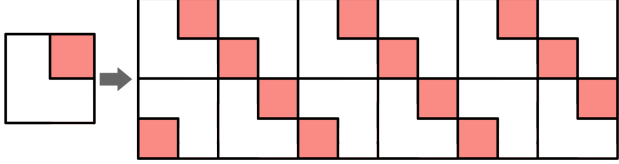


⑤



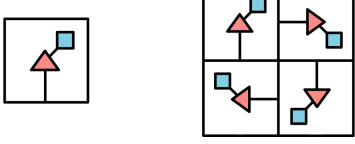


21. 왼쪽의 모양을 이용하여 무늬를 만들었습니다. 다음 중 이용하지 않은 방법은 어느 것입니까?



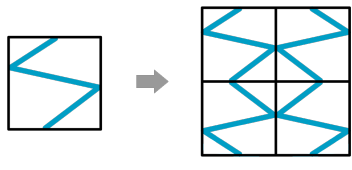
- ①    떼기
- ②    뒤집기
- ③    돌리기
- ④    뒤틀기
- ⑤    자르기

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



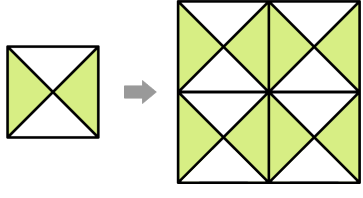
- ① 밀기                      ② 뒤집기                      ③ 돌리기
- ④ 밀고 뒤집기            ⑤ 뒤틀기

23. 왼쪽 모양을 어떻게 하여 이어 붙이면 오른쪽 무늬가 되겠는지 쓰시오.



 답: \_\_\_\_\_

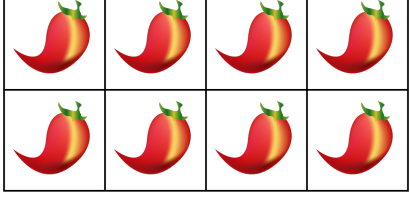
24. 다음 무늬는 주어진 모양을 어떻게 사용하여 만들었습니까?



 답: \_\_\_\_\_

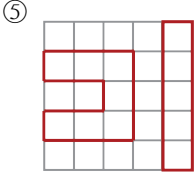
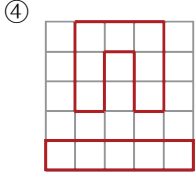
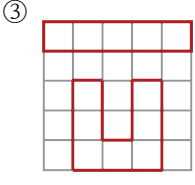
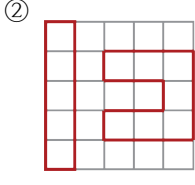
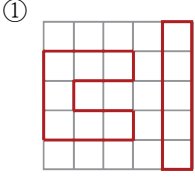
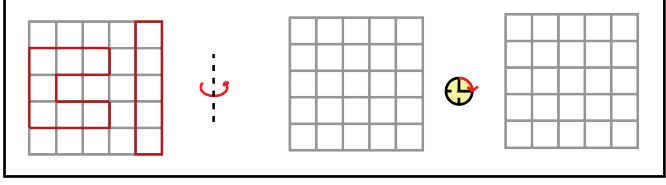


25. 다음 무늬는 어떤 방법을 이용하여 만든 것입니까?

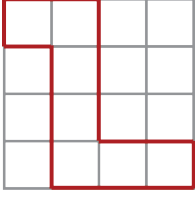


- ① 뒤집기
- ② 돌리기
- ③ 밀기
- ④ 겹치기
- ⑤ 뒤틀기

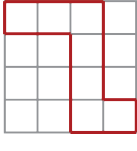
26. 도형을 오른쪽으로 뒤집고 시계 방향으로 90°만큼 돌렸을 때의 도형은 어느 것입니까?



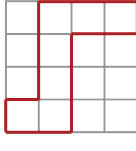
27. 도형을 위쪽으로 2번 뒤집고 시계 방향으로 180°만큼 돌렸을 때의 도형은 어느 것입니까?



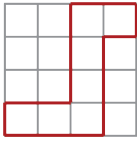
①



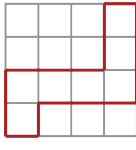
②



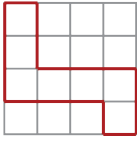
③



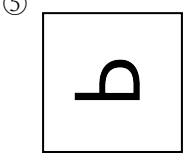
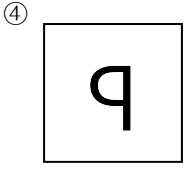
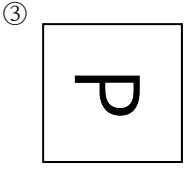
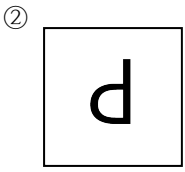
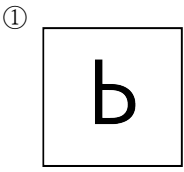
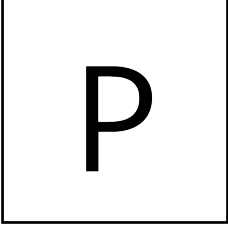
④



⑤

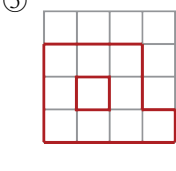
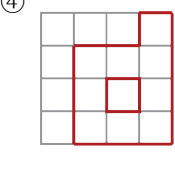
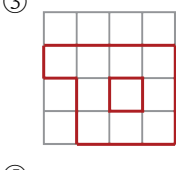
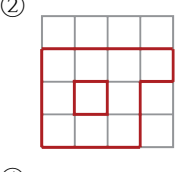
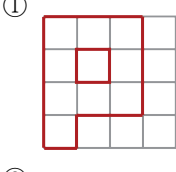
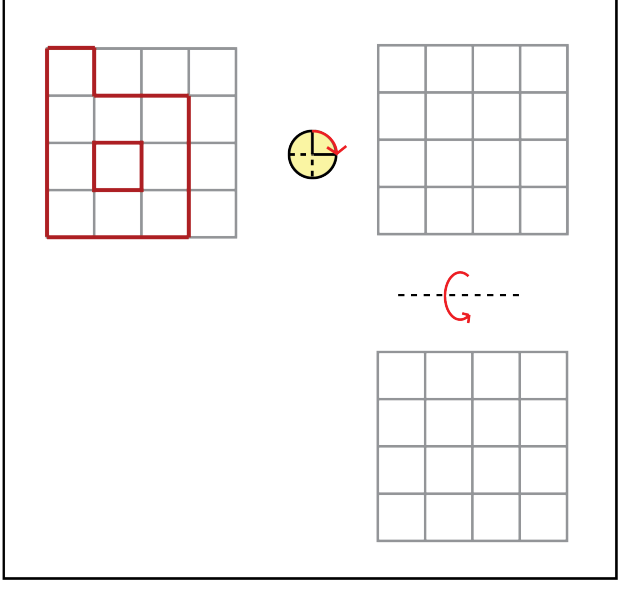


28. 알파벳 P를 시계 방향으로 180°만큼 돌리고 왼쪽으로 뒤집었을 때의 도형은 어느 것입니까?

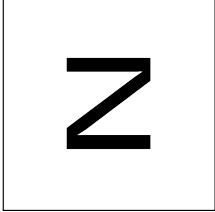
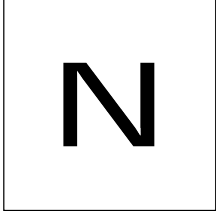




29. 도형을 시계 방향으로 90°만큼 돌리고 아래쪽으로 뒤집었을 때의 도형은 어느 것입니까?



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

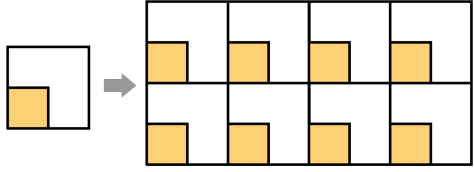


- ㉠ 시계 방향으로 90°돌리기
- ㉡ 시계 반대 방향으로 90°돌리기
- ㉢ 시계 방향으로 180°돌리고 왼쪽으로 뒤집기
- ㉣ 위쪽으로 뒤집고 시계 방향으로 270°돌리기

 답: \_\_\_\_\_

 답: \_\_\_\_\_

31. 다음 무늬는 주어진 모양을 어떻게 사용하여 만들었습니까?



 답: \_\_\_\_\_