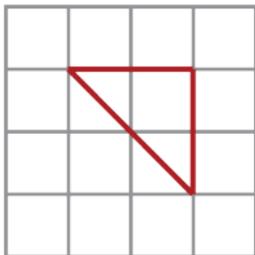
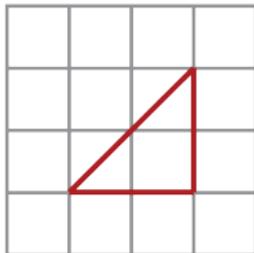


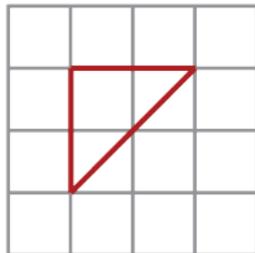
1. 도형을 시계 방향으로  $270^\circ$ 만큼 돌렸을 때의 도형을 가, 나 중 고르시오.



가

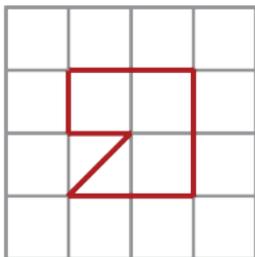


나

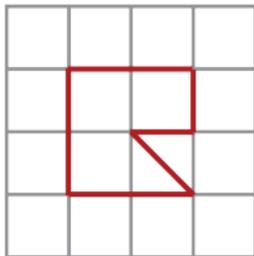


답: \_\_\_\_\_

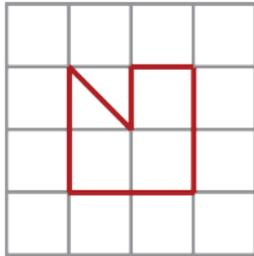
2. 도형을 시계 반대 방향으로  $270^\circ$ 만큼 돌렸을 때의 도형을 가, 나 중 고르시오.



가

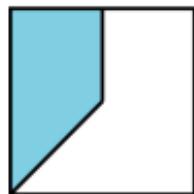


나



답: \_\_\_\_\_

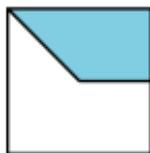
3. 다음 모양을 돌리기 하여 나올 수 있는 모양이 아닌 것을 모두 고르시오.



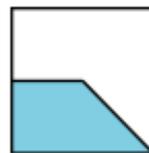
①



②



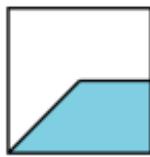
③



④



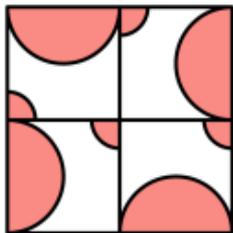
⑤



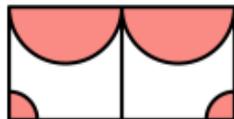
4. 다음 모양을 밀기, 뒤집기, 돌리기를 하여 이어 붙여서 무늬를 만들 때, 만들 수 없는 무늬는 어느 것입니까?



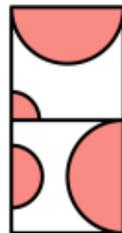
①



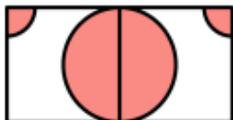
②



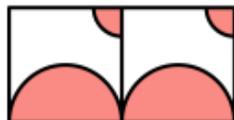
③



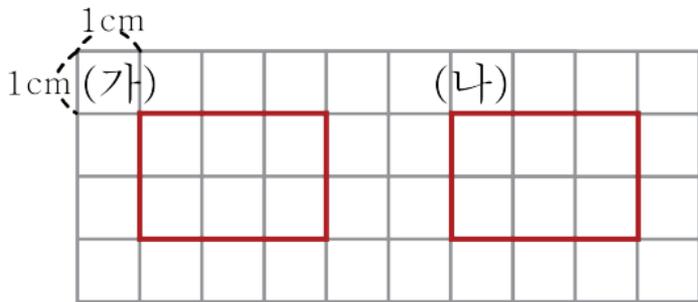
④



⑤

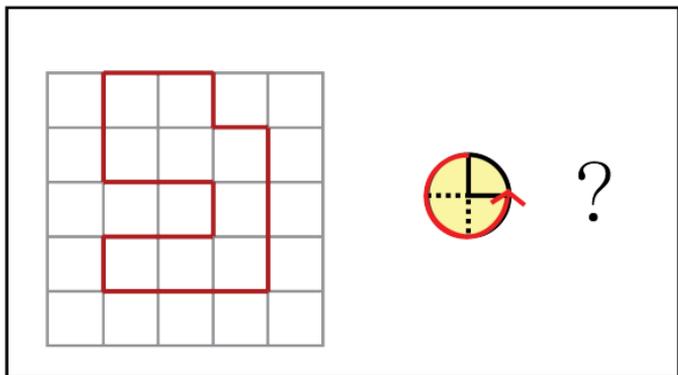


5. 다음 도형의 이동에 대한 설명으로 옳은 것은 어느 것입니까?

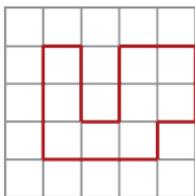


- ① (가)도형은 (나)도형을 왼쪽으로 2cm 밀었을 때의 모양입니다.
- ② (가)도형은 (나)도형을 오른쪽으로 5cm 밀었을 때의 모양입니다.
- ③ (나)도형은 (가)도형을 왼쪽으로 2cm 밀었을 때의 모양입니다.
- ④ (나)도형은 (가)도형을 오른쪽으로 5cm 밀었을 때의 모양입니다.
- ⑤ (나)도형은 (가)도형을 오른쪽으로 8cm 밀었을 때의 모양입니다.

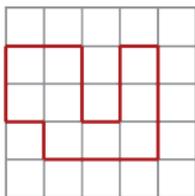
6. 모양 조각을 시계 반대 방향으로  $270^\circ$ 만큼 돌렸을 때의 모양은 어느 것입니까?



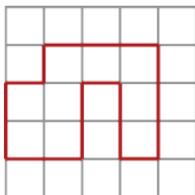
①



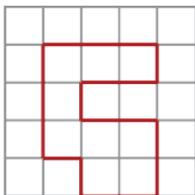
②



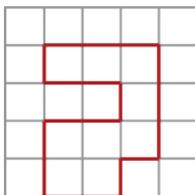
③



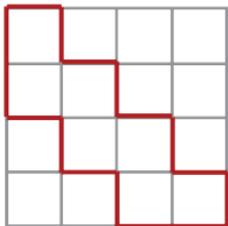
④



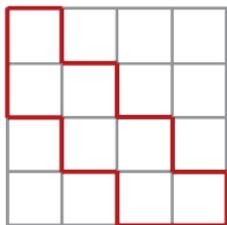
⑤



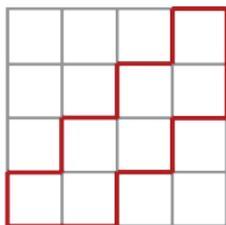
7. 다음에서 도형을 시계 방향으로  $90^\circ$ 만큼 돌린 다음 다시 시계 방향으로  $180^\circ$ 만큼 돌렸을 때의 도형을 고르시오.



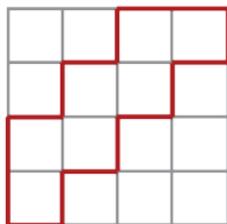
ㄱ



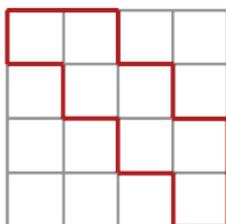
ㄴ



ㄷ

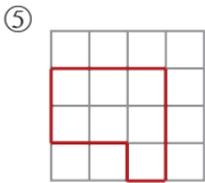
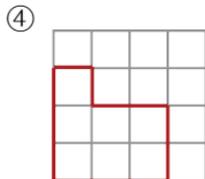
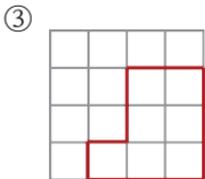
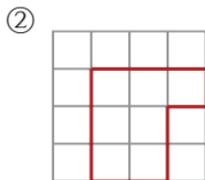
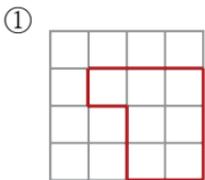
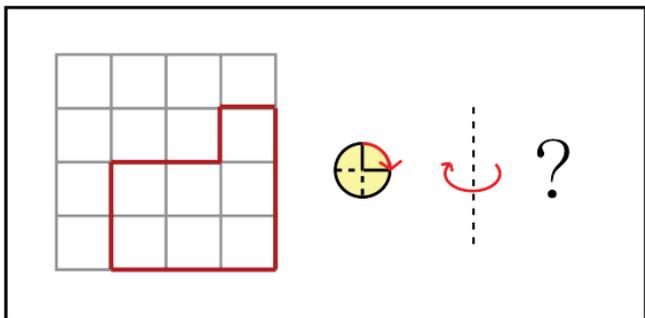


ㄹ

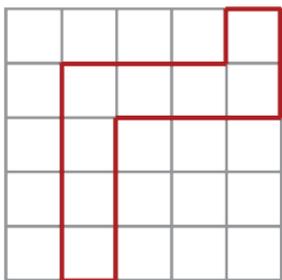


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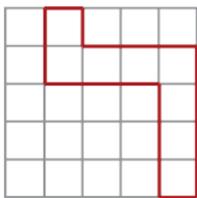
8. 도형을 시계 방향으로 90°만큼 돌리고 왼쪽으로 뒤집었을 때의 도형은 어느 것입니까?



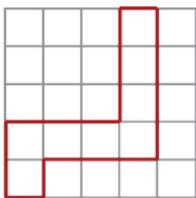
9. 도형을 왼쪽으로 6번 뒤집고 시계 반대 방향으로 180°만큼 돌렸을 때의 도형은 어느 것입니까?



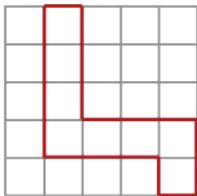
①



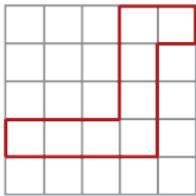
②



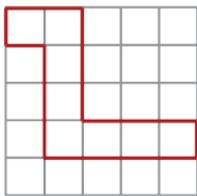
③



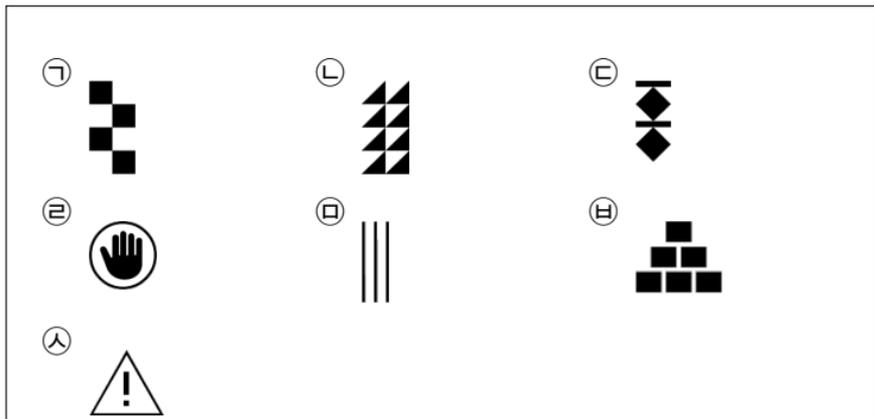
④



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10. 다음의 여러 가지 그림을 보고 오른쪽으로 뒤집기를 하여 같은 무늬를 얻을 수 있는 것을 모두 고르시오.



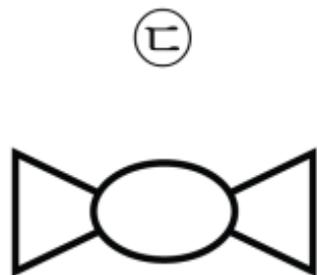
> 답: \_\_\_\_\_

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> 답: \_\_\_\_\_

> 답: \_\_\_\_\_

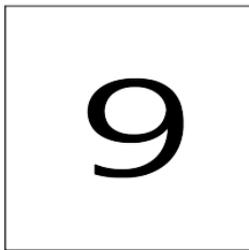
11. 다음 무늬를 보고, 뒤집기와 180°로 돌리기 하여 똑같은 무늬를 얻을 수 없는 것을 고르시오.



> 답: \_\_\_\_\_

> 답: \_\_\_\_\_

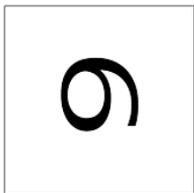
12. 다음 숫자 카드를 아래로 밀었을 때의 모양은 어느 것입니까?



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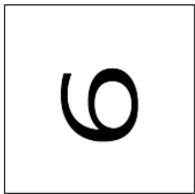
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13. 다음 숫자 중 위쪽으로 뒤집었을 때 처음 모양과 같지 않은 것을 모두 고르시오.

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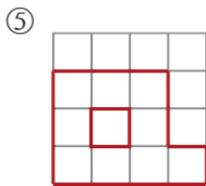
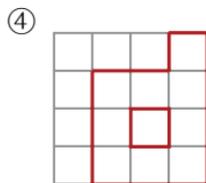
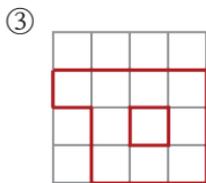
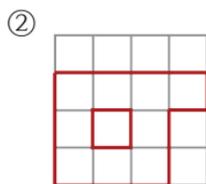
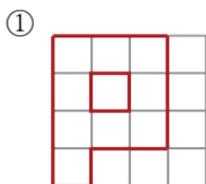
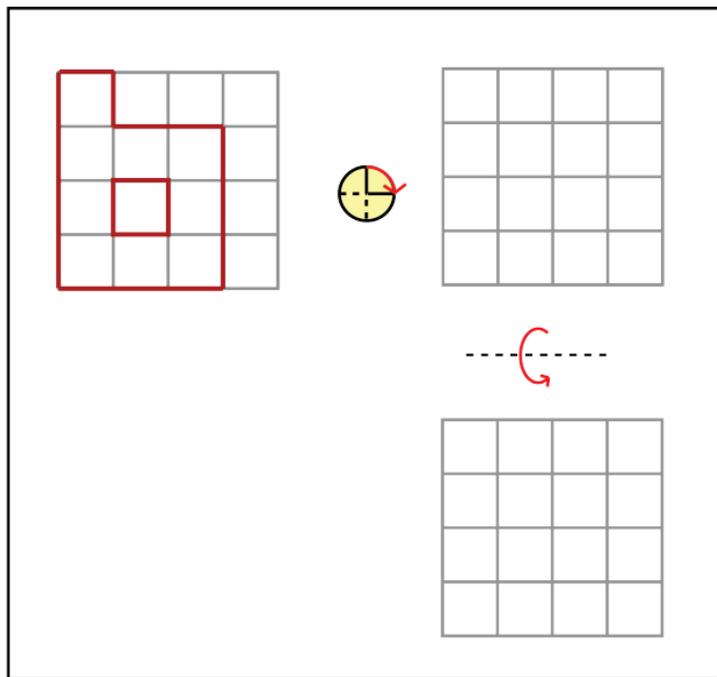
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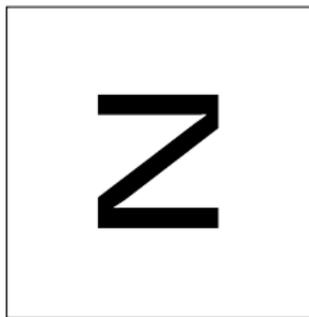
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9

14. 도형을 시계 방향으로  $90^\circ$ 만큼 돌리고 아래쪽으로 뒤집었을 때의 도형은 어느 것입니까?



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



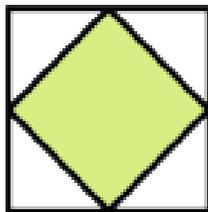
- ㉠ 시계 방향으로  $90^\circ$  돌리기
- ㉡ 시계 반대 방향으로  $90^\circ$  돌리기
- ㉢ 시계 방향으로  $180^\circ$  돌리고 왼쪽으로 뒤집기
- ㉣ 위쪽으로 뒤집고 시계 방향으로  $270^\circ$  돌리기

 답: \_\_\_\_\_

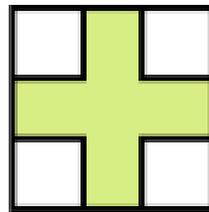
 답: \_\_\_\_\_

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

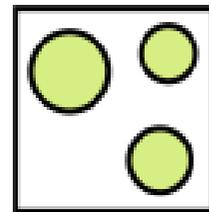
①



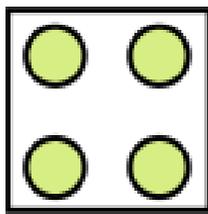
②



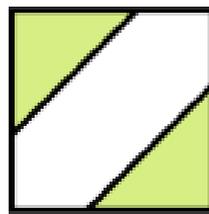
③



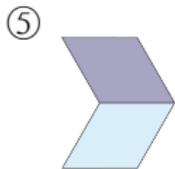
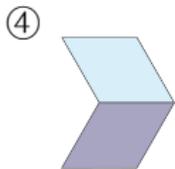
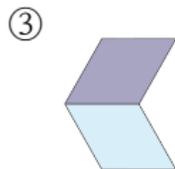
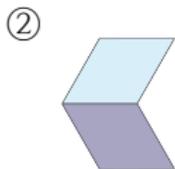
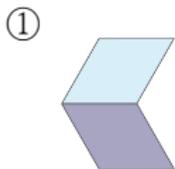
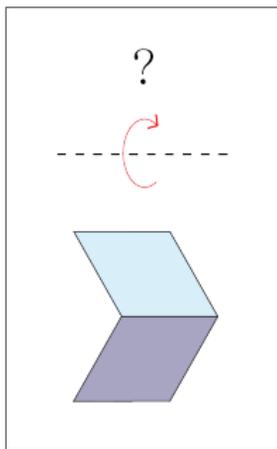
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17. 모양 조각을 위쪽으로 뒤집었을 때의 모양은 다음 중 어느 것입니까?

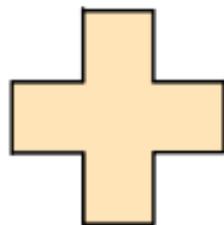


18. 다음 중 어느 방향으로 뒤집어도 모양이 바뀌지 않는 도형을 모두 고르시오.

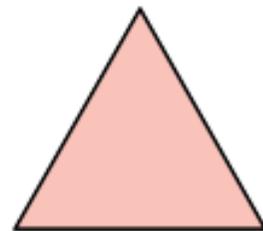
①



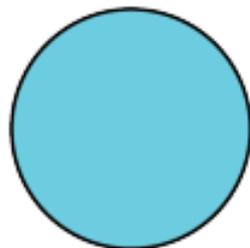
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**19.** 1619를 오른쪽으로  $180^\circ$  돌려 생기는 수와 처음 수와의 차는 얼마인지 구하시오.



답: \_\_\_\_\_

20. 다음 두 방식의 무늬는 공통적으로 씩 방법을 사용하여 만든 것입니다.  안에 알맞은 수나 말을 써넣으시오.



> 답: \_\_\_\_\_ ◦

> 답: \_\_\_\_\_