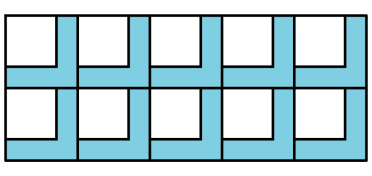
1. 다음 무늬는 어떤 모양을 밀기 방법을 이용하여 만든 것입니까?



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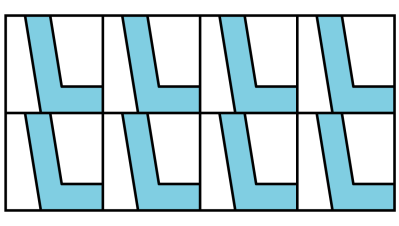
⑤

해설

위의 무늬는 을 옮기기 하여 만든 무늬입니다.

2. 다음 무늬는 모양을 어떻게 사용하여 만들었습니까?



① 뒤집기 ② 돌리기 ③ 밀기

④ 뒤틀기 ⑤ 뒤집고 돌리기

해설

모양이 변하지 않았으므로 밀기를 사용하여 만들었습니다.

3. 다음 무늬는 어떤 모양을 뒤집어 가며 이어 붙여서 만든 모양입니까?

①

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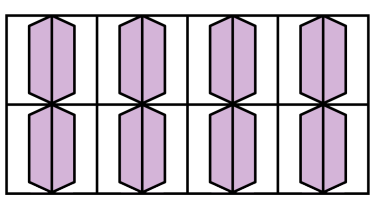
해설

모양을 뒤집어 가며 이어 붙여서 만든 모양입니다.

4. 다음 무늬는 어떤 모양을 어떻게 움직여서 만든 것입니까?



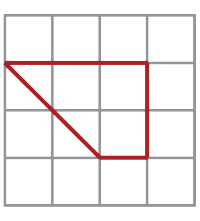
▶ 답 :

▷ 정답 : 뒤집기

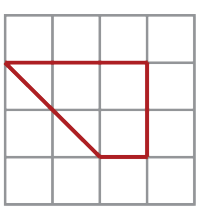
해설

모양을 뒤집기를 하여 이어 붙인 무늬입니다.

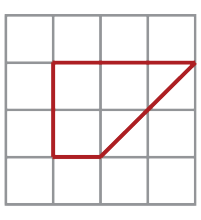
5. 다음 도형을 오른쪽으로 밀었을 때의 도형을 가, 나 중 고르시오.



가



나



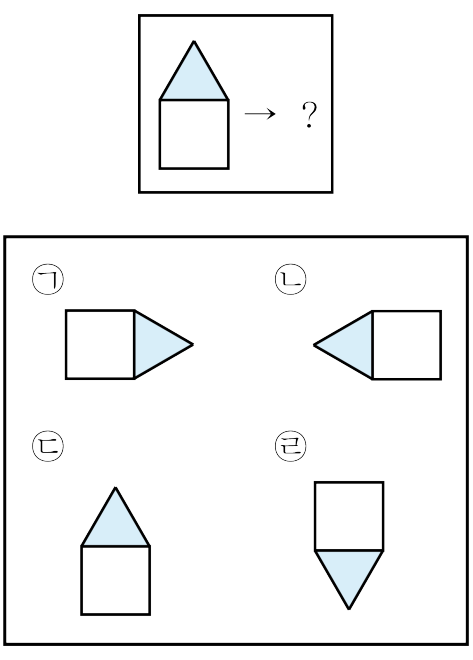
▶ 답 :

▷ 정답 : 가

해설

도형을 밀면 모양과 크기는 변하지 않습니다.

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



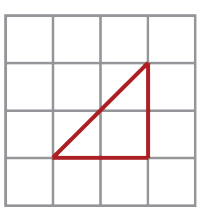
▶ 답 :

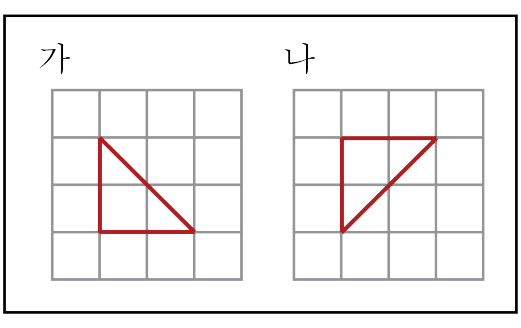
▷ 정답 : ㉣

해설

도형을 밀면 모양과 크기는 변하지 않습니다.

7. 다음 도형을 왼쪽으로 뒤집었을 때의 도형을 가, 나 중 고르시오.





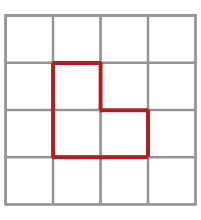
▶ 답 :

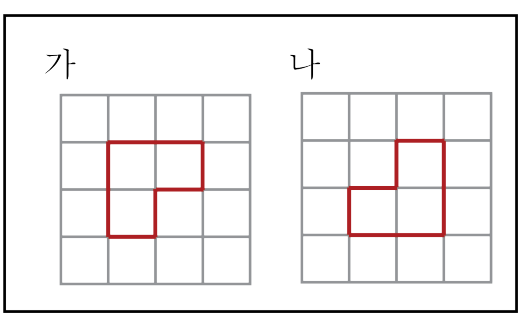
▷ 정답 : 가

해설

도형을 왼쪽으로 뒤집으면 도형의 오른쪽과 왼쪽이 서로 바뀝니다.

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



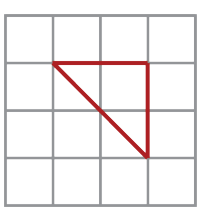


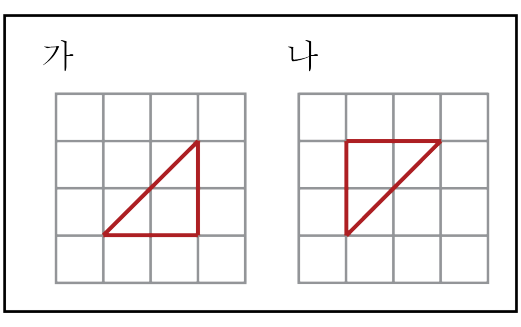
▶ 답 :

▷ 정답 : 가

해설

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



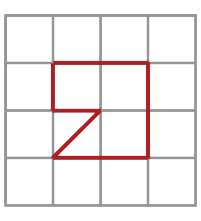


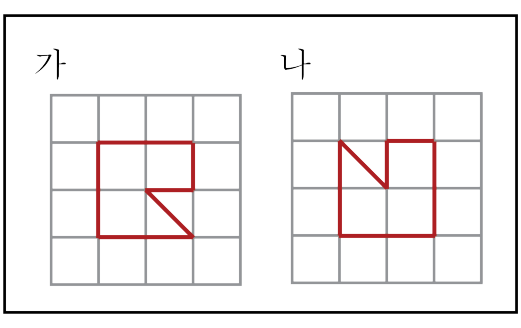
▶ 답 :

▷ 정답 : 나

해설

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



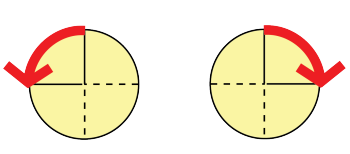


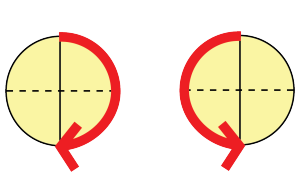
▶ 답 :

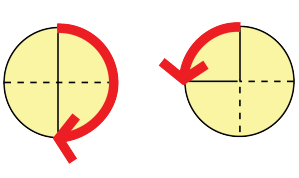
▷ 정답 : 나

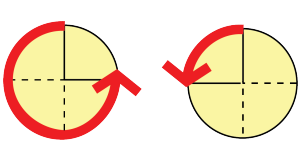
해설

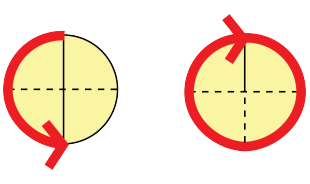
11. 다음 중 도형을 주어진 방향으로 돌렸을 때 같은 모양이 되는 것은 어느 것입니까?

① 

② 

③ 

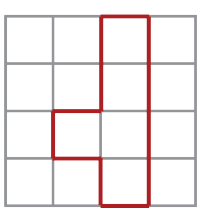
④ 

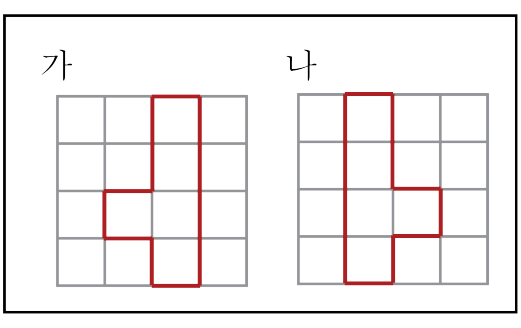
⑤ 

해설

화살표 끝이 가리키는 위치가 같으면 도형을 돌렸을 때의 모양이 같습니다.

12. 도형을 시계 방향으로 360°만큼 돌렸을 때의 도형을 가, 나 중 고르시오.





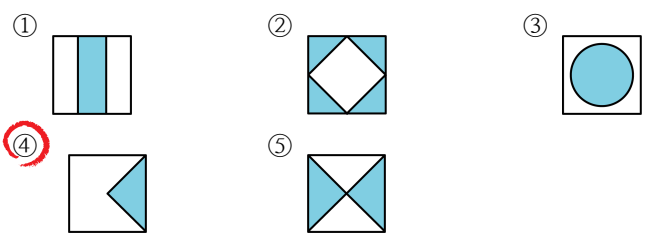
▶ 답 :

▷ 정답 : 가

해설

도형을 시계 방향으로 360°만큼 돌리면 처음 도형과 모양이 같습니다.

13. 다음 중 뒤집기 한 모양과 밀기 한 모양이 다르게 될 수 있는 것을 고르시오.

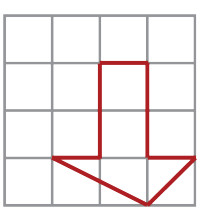


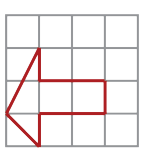
해설

④를 밀기 한 모양 :

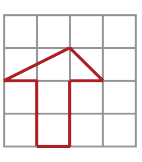
④를 뒤집기 한 모양 :

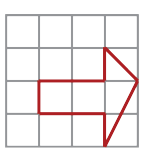
14. 어떤 도형을 시계 방향으로 90°만큼 돌린 도형이 다음과 같았을 때, 도형의 처음 모양은 어느 것입니까?

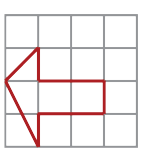


① 

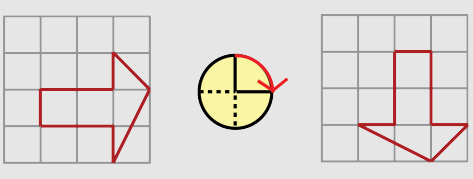
②

③ 

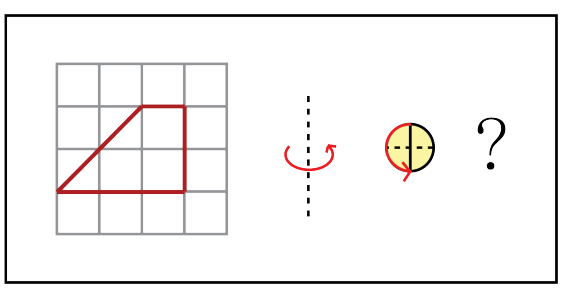
④ 

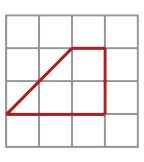
⑤ 

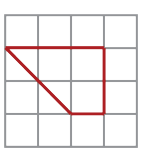
해설

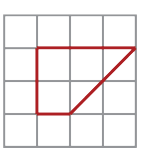


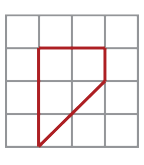
15. 도형을 오른쪽으로 뒤집고 시계 반대 방향으로 180°만큼 돌렸을 때의 도형은 어느 것입니까?

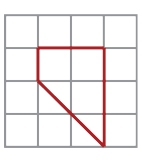


① 

② 

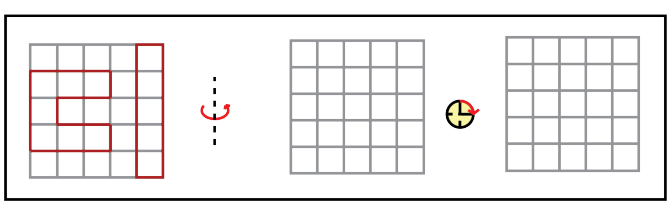
③ 

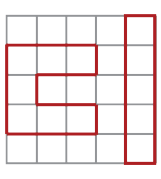
④ 

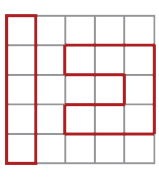
⑤ 

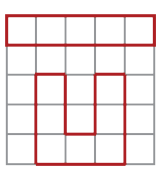
해설

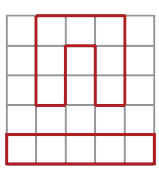
16. 도형을 오른쪽으로 뒤집고 시계 방향으로 90 °만큼 돌렸을 때의 도형은 어느 것입니까?

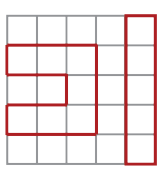


① 

② 

③ 

④ 

⑤ 

해설

17. 뒤집기하여 처음과 같은 모양을 얻을 수 없는 알파벳은 모두 몇 개입니까?

A	B	E	G	H
I	K	L	M	N
O	P	S	T	U

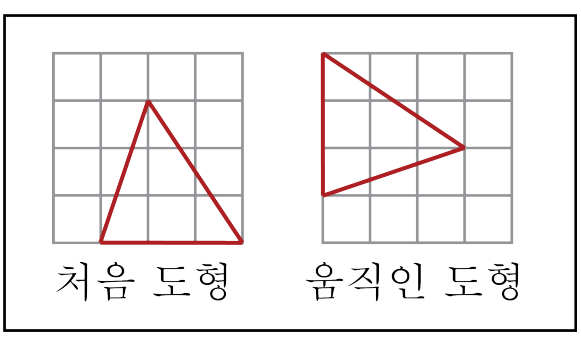
▶ 답 : 개

▷ 정답 : 5개

해설

뒤집기 : A(좌우), B(상하), E(상하), H(좌우, 상하), I(좌우, 상하), K(상하), M(좌우), O(좌우, 상하), T(좌우), U(좌우)
따라서 알파벳 G, L, N, P, S 는 뒤집기하여 처음과 같은 모양을 얻을 수 없으므로 5개이다.

18. 다음 도형의 이동에 대한 설명을 보고 □ 안에 알맞은 수를 써넣으시오.



처음 도형을 왼쪽으로 뒤집고 시계 방향으로 □ °돌리면 움직인 도형이 됩니다.

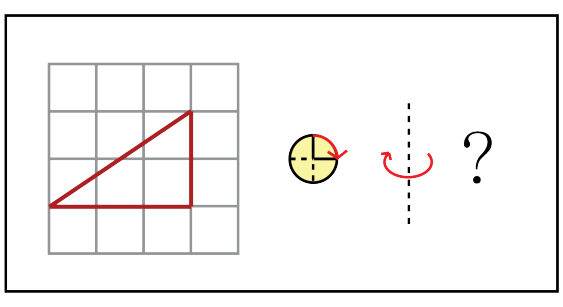
▶ 답 :

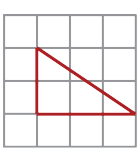
▷ 정답 : 90

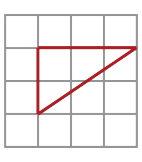
해설

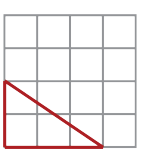
처음 도형을 왼쪽으로 뒤집고 시계 방향으로 90 °돌리면 움직인 도형이 됩니다.

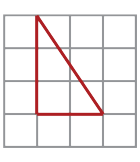
19. 도형을 시계 방향으로 90 °만큼 돌리고 왼쪽으로 뒤집었을 때의 도형은 어느 것입니까?

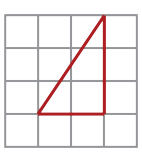


① 

② 

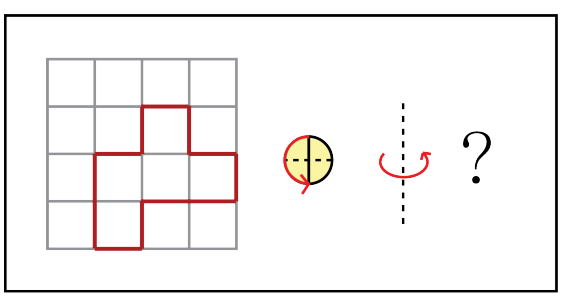
③ 

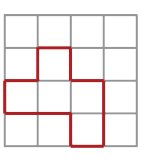
④ 

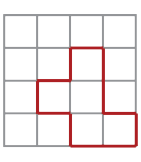
⑤ 

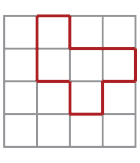
해설

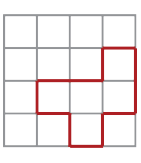
20. 도형을 시계 반대 방향으로 180°만큼 돌리고 오른쪽으로 뒤집었을 때의 도형은 어느 것입니까?

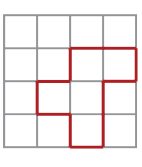


① 

② 

③ 

④ 

⑤ 

해설