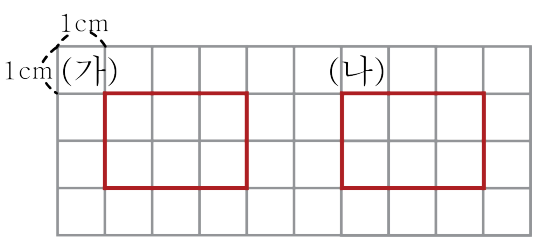
1. 다음 도형의 이동에 대한 설명으로 옳은 것은 어느 것입니까?



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.

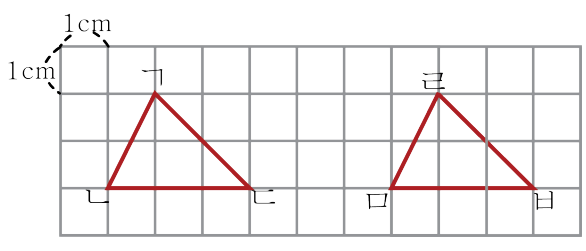
④ (나) 도형은 (가) 도형을 오른쪽으로 5cm 밀었을 때의 모양입니다.

⑤ (나) 도형은 (가) 도형을 오른쪽으로 8cm 밀었을 때의 모양입니다.

해설

(가) 도형은 (나) 도형을 왼쪽으로 5cm 밀었을 때의 모양이고, (나) 도형은 (가) 도형을 오른쪽으로 5cm 밀었을 때의 모양입니다.

2. 다음 도형의 이동에 대한 설명으로 옳은 것은 어느 것입니까?



① 삼각형 ㄱㄴㄷ은 삼각형 ㄹㅁㅂ을 왼쪽으로 6 cm 밀었을 때의 모양입니다.

② 삼각형 ㄱㄴㄷ은 삼각형 ㄹㅁㅂ을 오른쪽으로 3 cm 밀었을 때의 모양입니다.

③ 삼각형 ㄹㅁㅂ은 삼각형 ㄱㄴㄷ을 왼쪽으로 6 cm 밀었을 때의 모양입니다.

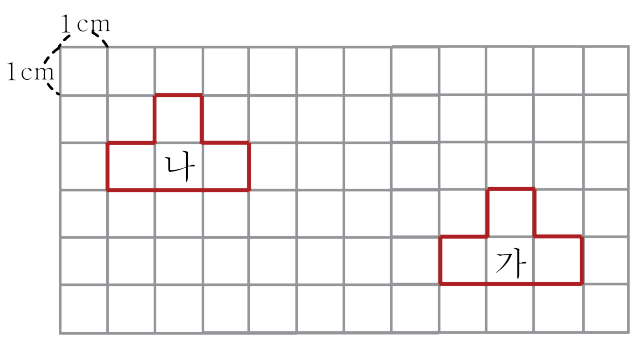
④ 삼각형 ㄹㅁㅂ은 삼각형 ㄱㄴㄷ을 오른쪽으로 3 cm 밀었을 때의 모양입니다.

⑤ 삼각형 ㄹㅁㅂ은 삼각형 ㄱㄴㄷ을 오른쪽으로 9 cm 밀었을 때의 모양입니다.

해설

삼각형 ㄱㄴㄷ은 삼각형 ㄹㅁㅂ을 왼쪽으로 6 cm 밀었을 때의 모양이고, 삼각형 ㄹㅁㅂ은 삼각형 ㄱㄴㄷ을 오른쪽으로 6 cm 밀었을 때의 모양입니다.

3. 가 도형에 대한 설명으로 옳은 것은 어느 것입니까?



① 나 도형을 오른쪽으로 4 cm 만 도형입니다.

② 나 도형을 아래쪽으로 2 cm 만 도형입니다.

③ 나 도형을 오른쪽으로 4 cm, 아래쪽으로 2 cm 만 도형입니다.

④ 나 도형을 오른쪽으로 7 cm, 아래쪽으로 2 cm 만 도형입니다.

⑤ 나 도형을 왼쪽으로 7 cm, 위쪽으로 4 cm 만 도형입니다.

해설

가 도형은 나 도형을 오른쪽으로 7 cm, 아래쪽으로 2 cm 만 도형입니다.

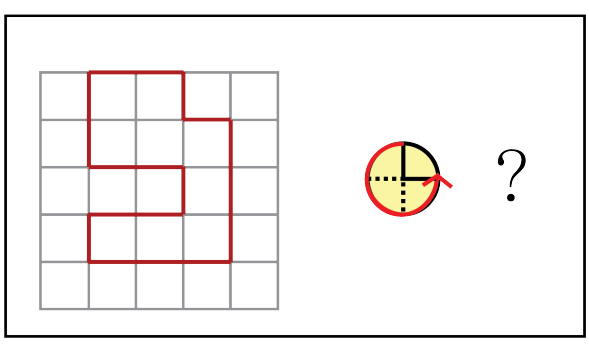
4. 모양 조각을 위쪽으로 뒤집었을 때의 모양은 다음 중 어느 것입니까?

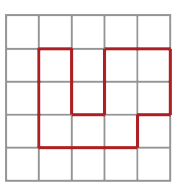
①
②
③
④
⑤

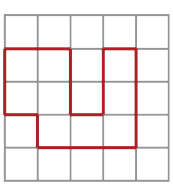
해설

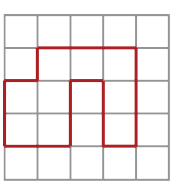
모양 조각을 위쪽으로 뒤집으면 위쪽과 아래쪽이 서로 바뀝니다.

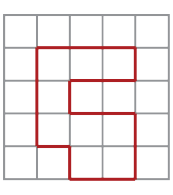
5. 모양 조각을 시계 반대 방향으로 270°만큼 돌렸을 때의 모양은 어느 것입니까?

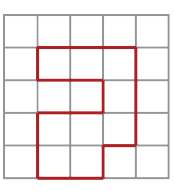


① 

② 

③ 

④ 

⑤ 

해설

② 돌려서 나올 수 없는 모양입니다.
③ 시계 반대 방향으로 90°만큼 돌린 모양입니다.
④ 시계 반대 방향으로 180°만큼 돌린 모양입니다.
⑤ 돌려서 나올 수 없는 모양입니다.

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

①

②

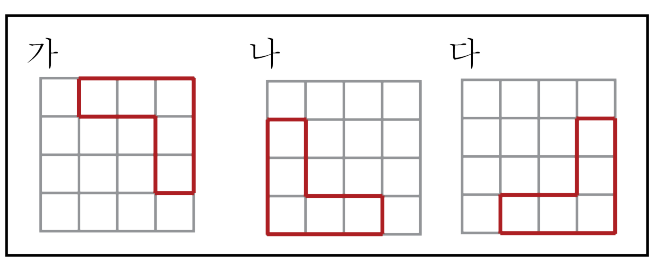
③

④

⑤

해설

7. 다음 그림의 도형에 대한 설명으로 옳지 않은 것을 모두 고르시오.



① 가 도형을 시계 방향으로 90°만큼 돌리면 나 도형이 됩니다.

② 가 도형을 시계 반대 방향으로 180°만큼 돌리면 나 도형이 됩니다.

③ 나 도형을 시계 방향으로 270°만큼 돌리면 다 도형이 됩니다.

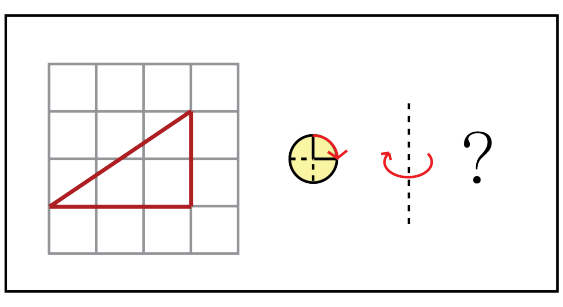
④ 나 도형을 시계 반대 방향으로 360°만큼 돌리면 처음 모양과 같습니다.

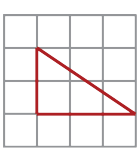
⑤ 다 도형을 시계 방향으로 90°만큼 돌리면 가 도형이 됩니다.

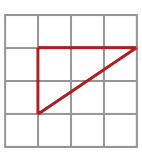
해설

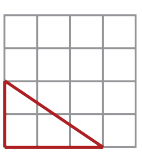
① 가 도형을 시계 방향으로 90°만큼 돌리면 다 도형이 됩니다.
⑤ 다 도형을 시계 방향으로 90°만큼 돌리면 나 도형이 됩니다.
다 도형을 시계 반대 방향으로 90°만큼 (또는 시계 방향으로 270°만큼) 돌리면 가 도형이 됩니다.

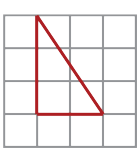
8. 도형을 시계 방향으로 90 °만큼 돌리고 왼쪽으로 뒤집었을 때의 도형은 어느 것입니까?

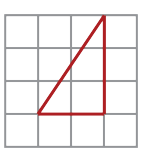


① 

② 

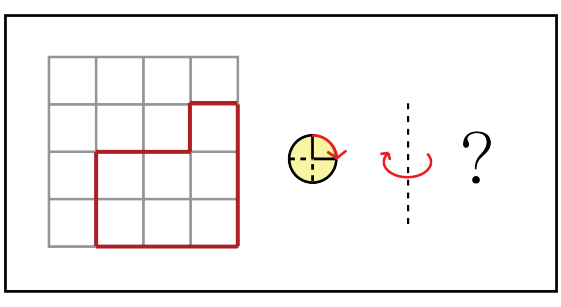
③ 

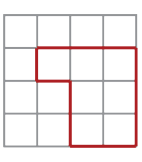
④ 

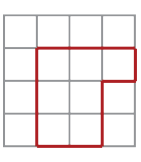
⑤ 

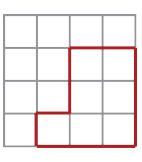
해설

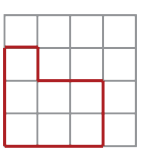
9. 도형을 시계 방향으로 90 °만큼 돌리고 왼쪽으로 뒤집었을 때의 도형은 어느 것입니까?

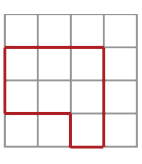


① 

② 

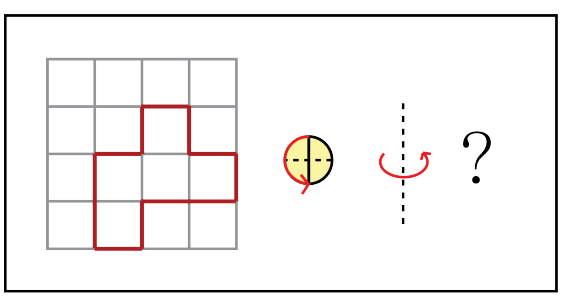
③ 

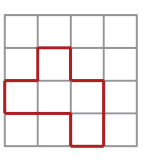
④ 

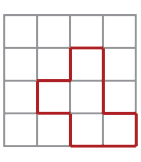
⑤ 

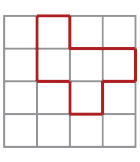
해설

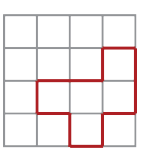
10. 도형을 시계 반대 방향으로 180°만큼 돌리고 오른쪽으로 뒤집었을 때의 도형은 어느 것입니까?

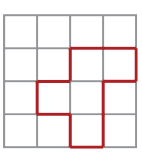


① 

② 

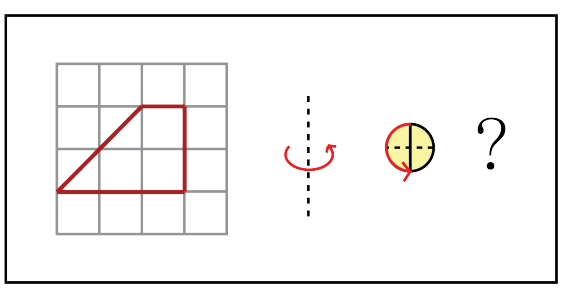
③ 

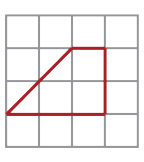
④ 

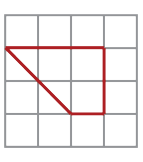
⑤ 

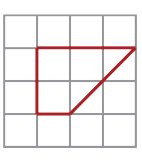
해설

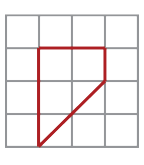
11. 도형을 오른쪽으로 뒤집고 시계 반대 방향으로 180°만큼 돌렸을 때의 도형은 어느 것입니까?

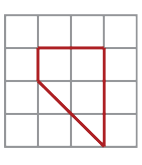


① 

② 

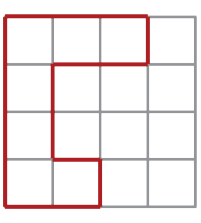
③ 

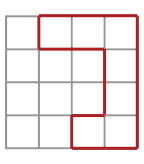
④ 

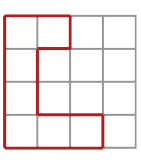
⑤ 

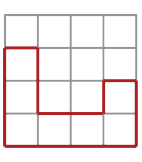
해설

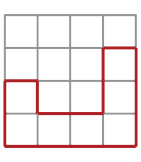
12. 도형을 아래쪽으로 뒤집고 시계 방향으로 180°만큼 돌렸을 때의 도형은 어느 것입니까?

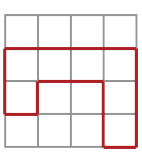


① 

② 

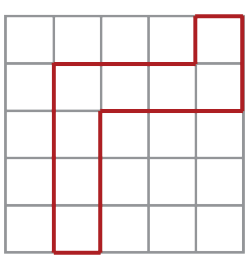
③ 

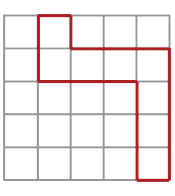
④ 

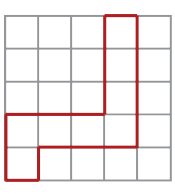
⑤ 

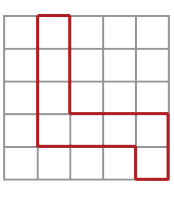
해설

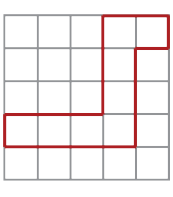
13. 도형을 왼쪽으로 6번 뒤집고 시계 반대 방향으로 180°만큼 돌렸을 때의 도형은 어느 것입니까?

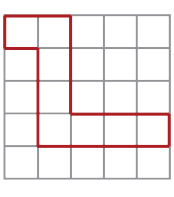


① 

② 

③ 

④ 

⑤ 

해설

14. 도형을 위로 밀고 오른쪽으로 4번 뒤집고 시계 반대 방향으로 90°만큼 3번 돌렸을 때의 도형은 어느 것입니까?

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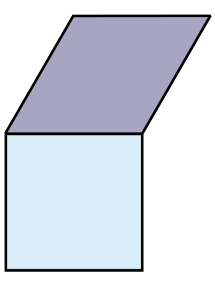
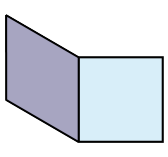
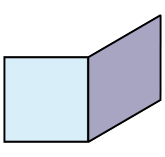
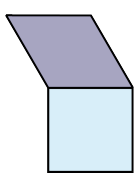
해설

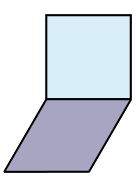
15. 도형을 아래쪽으로 6번 뒤집고 시계 방향으로 180°만큼 3번 돌렸을 때의 도형은 어느 것입니까?

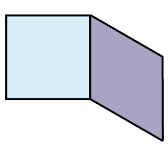


① 

② 

③ 

④ 

⑤ 

해설

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

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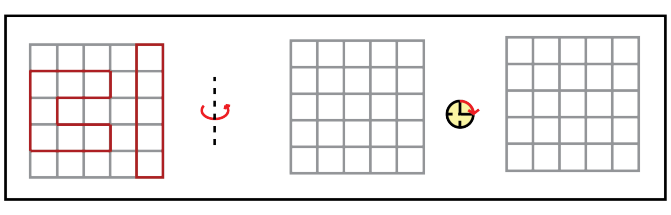
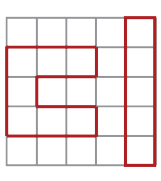
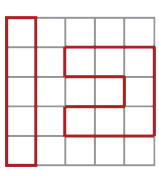
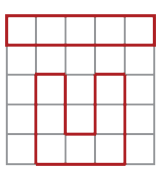
해설

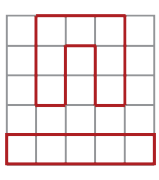
17. 도형을 오른쪽으로 뒤집고 시계 방향으로 90 °만큼 돌렸을 때의 도형은 어느 것입니까?

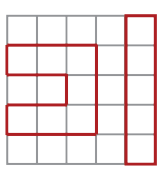


① 

② 

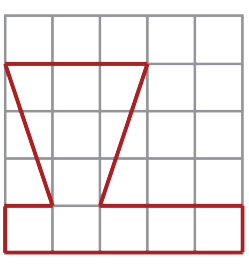
③ 

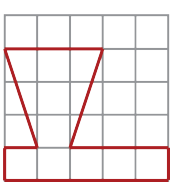
④ 

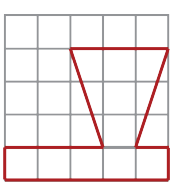
⑤ 

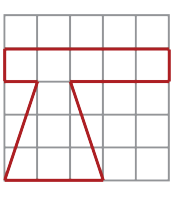
해설

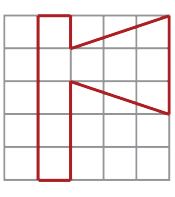
18. 도형을 아래쪽으로 4번 뒤집고 시계 반대 방향으로 90°만큼 돌렸을 때의 도형은 어느 것입니까?

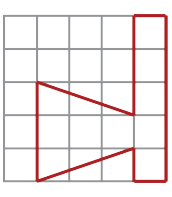


① 

② 

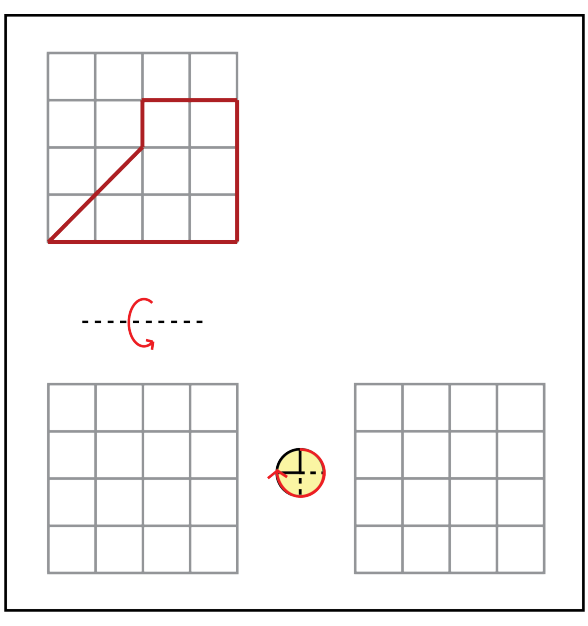
③ 

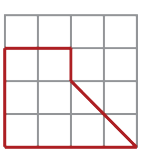
④ 

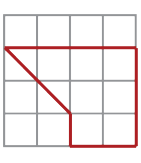
⑤ 

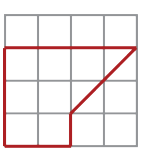
해설

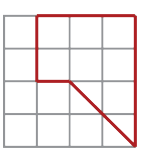
19. 도형을 아래쪽으로 뒤집고 시계 방향으로 270°만큼 돌렸을 때의 도형은 어느 것입니까?

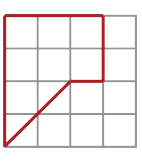


① 

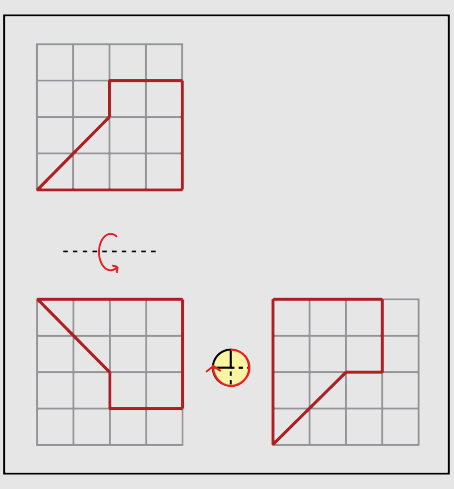
② 

③ 

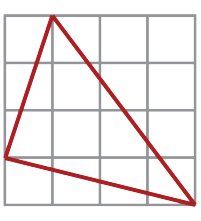
④ 

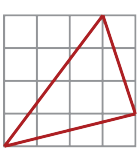
⑤ 

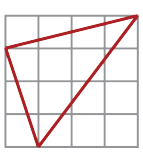
해설

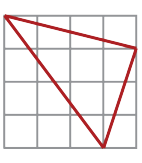


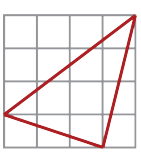
20. 도형을 오른쪽으로 밀고 왼쪽으로 5번 뒤집은 다음 시계 방향으로 180°만큼 돌렸을 때의 도형은 어느 것입니까?

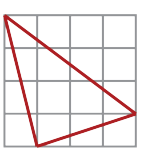


① 

② 

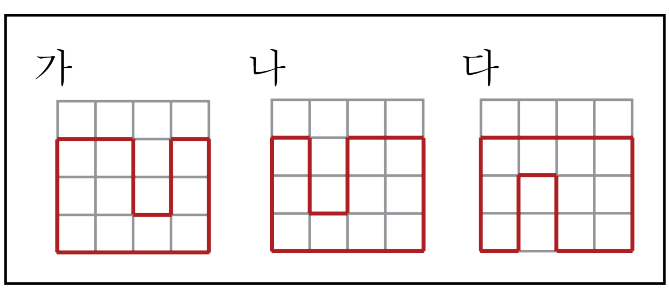
③ 

④ 

⑤ 

해설

21. 다음 도형에 대한 설명으로 옳지 않은 것은 어느 것입니까?



① 가 도형은 나 도형을 왼쪽으로 뒤집은 도형입니다.

② 가 도형은 다 도형을 시계 방향으로 180°만큼 돌린 도형입니다.

③ 나 도형은 가 도형을 오른쪽으로 뒤집은 도형입니다.

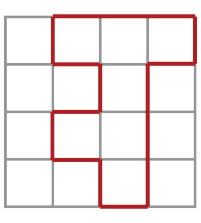
④ 나 도형은 다 도형을 왼쪽으로 뒤집고 시계 반대 방향으로 180°만큼 돌린 도형입니다.

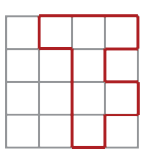
⑤ 다 도형은 가 도형을 아래쪽으로 뒤집은 도형입니다.

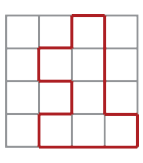
해설

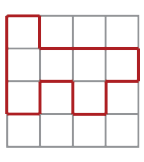
⑤ 다 도형은 가 도형을 시계 방향으로 (또는 반시계 방향으로) 180°돌린 도형입니다.

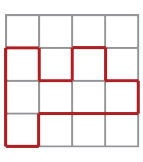
22. 도형을 아래쪽으로 뒤집고 시계 반대 방향으로 270 °만큼 돌렸을 때의 도형은 어느 것입니까?

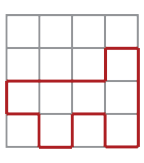


① 

② 

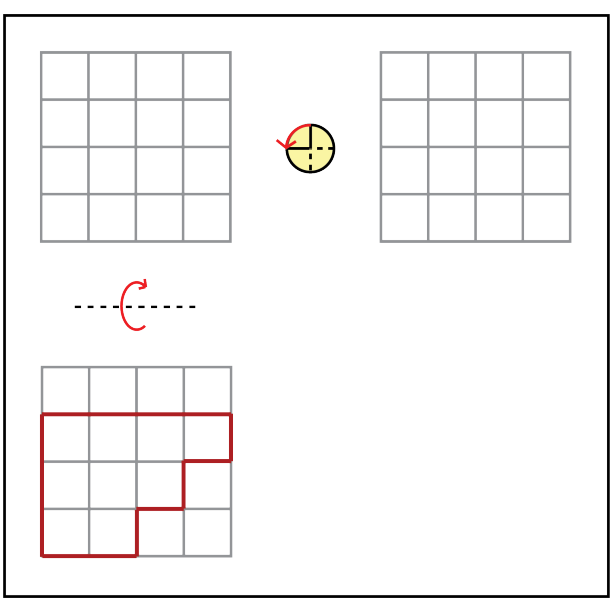
③ 

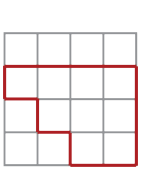
④ 

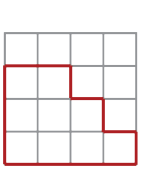
⑤ 

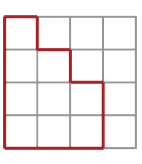
해설

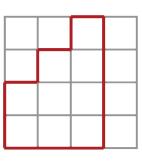
23. 도형을 위쪽으로 뒤집고 시계 반대 방향으로 90°만큼 돌렸을 때의 도형은 어느 것입니까?

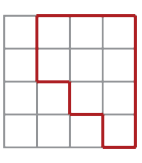


① 

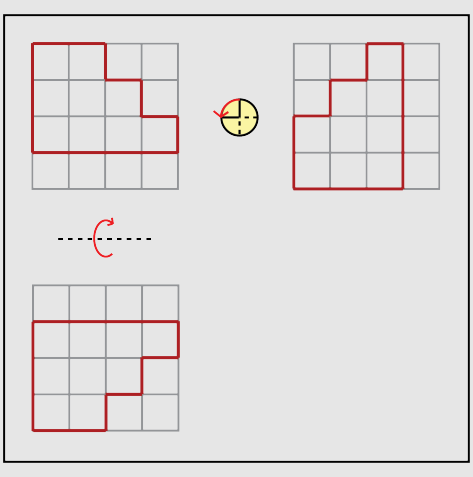
② 

③ 

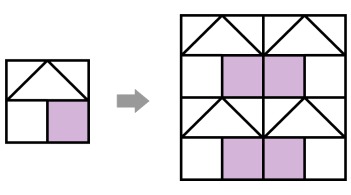
④ 

⑤ 

해설

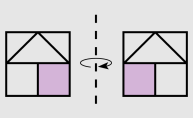


24. 왼쪽 모양을 네 개 이어 붙여서 오른쪽 무늬를 만들었습니다. 주어진 모양을 어떤 방법을 이용하여 만든 것인지 모두 고르시오.

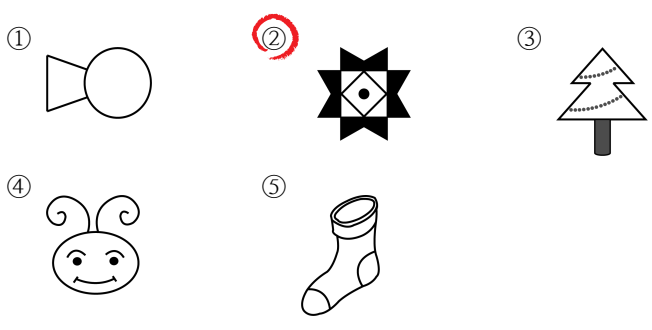


① 밀기　② 뒤집기　③ 돌리기
④ 뒤틀기　⑤ 겹치기

해설



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



해설

뒤집기 하여 같은 무늬를 얻으려면, 좌, 우, 상, 하로 뒤집은 모양이 같아야 합니다.
따라서 정답은 ②번입니다.