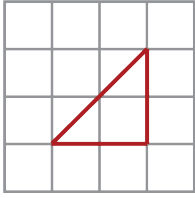


1. 다음 도형을 왼쪽으로 뒤집었을 때의 도형을 가, 나 중 고르시오.

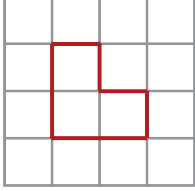


가

나

 답: _____

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

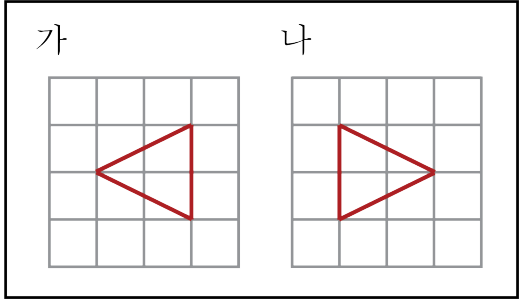
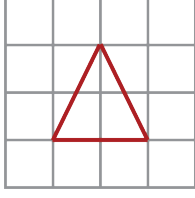


가

나

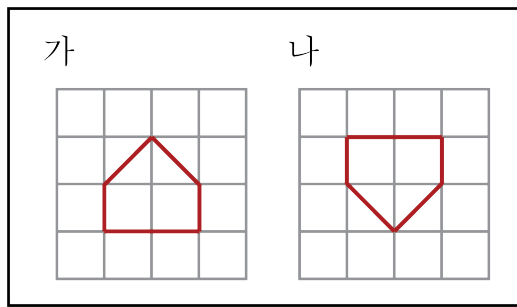
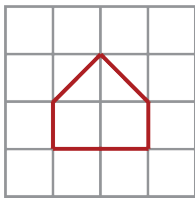
 답: _____

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



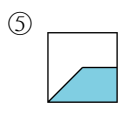
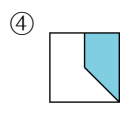
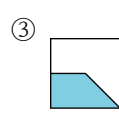
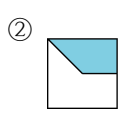
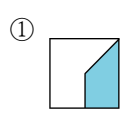
 답: _____

4. 도형을 시계 반대 방향으로 180° 만큼 돌렸을 때의 도형을 가, 나 중 고르시오.

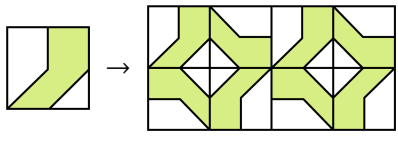


 답: _____

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



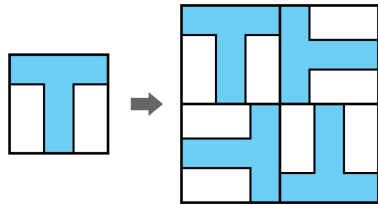
6. 다음 무늬는 아래 모양을 어떻게 움직여서 만든 것인지 모두 쓰시오.



> 답: _____

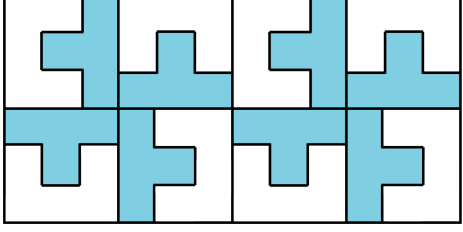
> 답: _____

7. 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

8. 다음 무늬는 어떤 모양을 돌리기 한 것입니까?



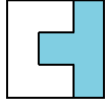
①



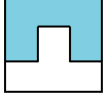
②



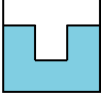
③



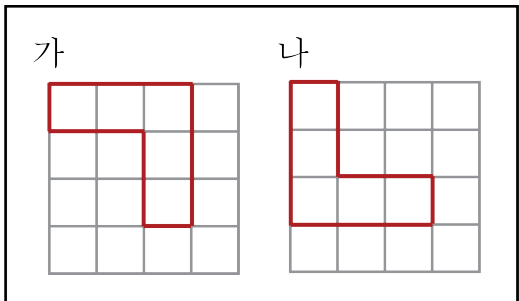
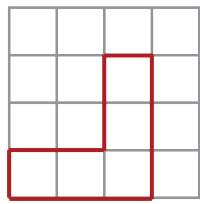
④



⑤

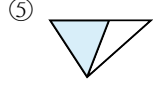
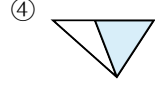
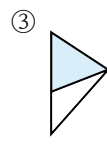
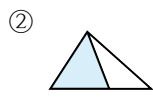
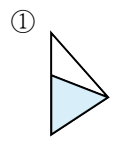
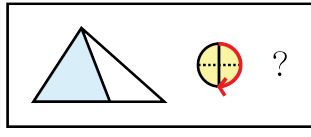


9. 다음 도형을 위쪽으로 뒤집었을 때의 도형을 가, 나 중 고르시오.

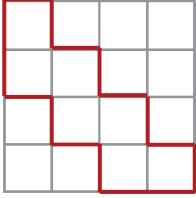


 답: _____

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



11. 다음에서 도형을 시계 방향으로 90°만큼 돌린 다음 다시 시계 방향으로 180°만큼 돌렸을 때의 도형을 고르시오.



㉠

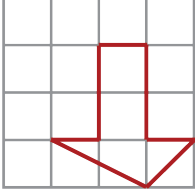
㉡

㉢

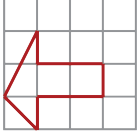
㉣

답: _____

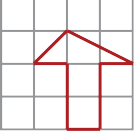
12. 어떤 도형을 시계 방향으로 90°만큼 돌린 도형이 다음과 같았을 때, 도형의 처음 모양은 어느 것입니까?



①



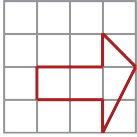
②



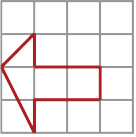
③



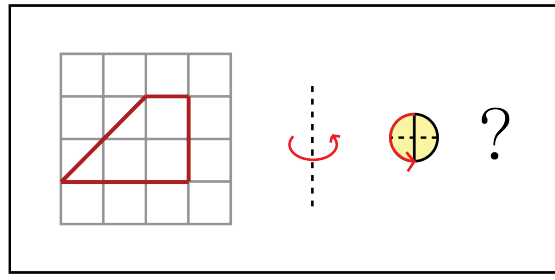
④



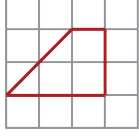
⑤



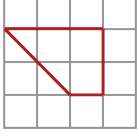
13. 도형을 오른쪽으로 뒤집고 시계 반대 방향으로 180°만큼 돌렸을 때의 도형은 어느 것입니까?



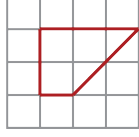
①



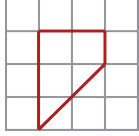
②



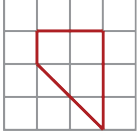
③



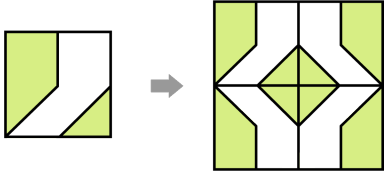
④



⑤



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



▶ 답: _____

15. 다음 무늬 중에서 뒤집기를 한 무늬와 돌리기를 한 무늬가 다른 것은 어느 것인지 고르시오.

①



②



③



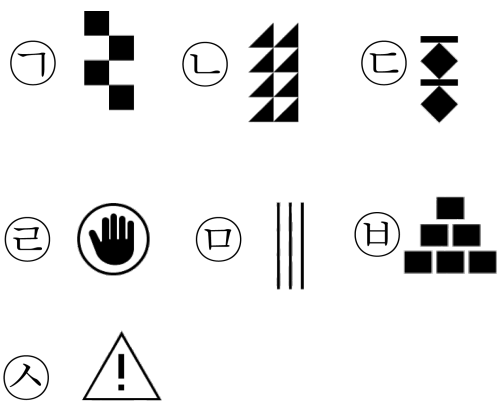
④



⑤



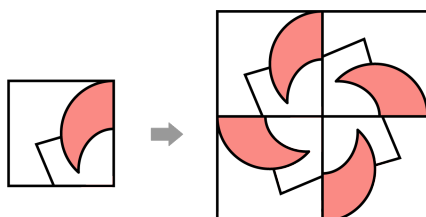
16. 다음의 여러 가지 그림을 보고 180°로 돌리기를 하여 같은 무늬를 얻을 수 있는 것을 모두 고르시오.



 답: _____

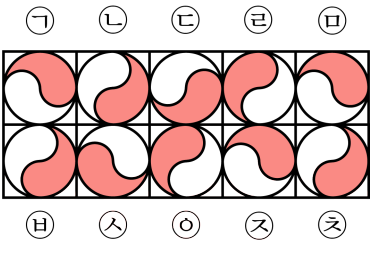
 답: _____

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



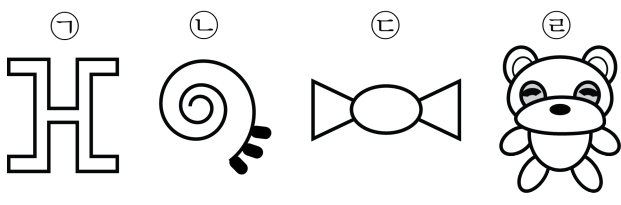
- ① 밀기 ② 뒤집기 ③ 돌리기
④ 밀고 뒤집기 ⑤ 뒤집고 돌리기

18. 다음은 한 가지 규칙만을 사용하여 움직인 무늬입니다. 규칙에 어긋나는 무늬를 찾아 기호를 쓰시오.



 답: _____

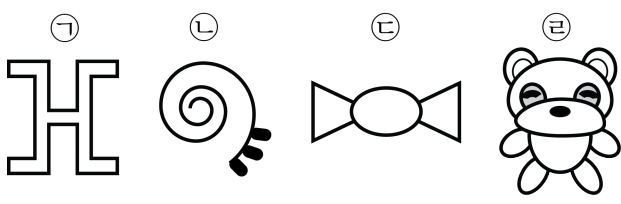
19. 다음 무늬를 보고, 뒤집기와 180°로 돌리기 하여 똑같은 무늬를 얻을 수 없는 것을 고르시오.



 답: _____

 답: _____

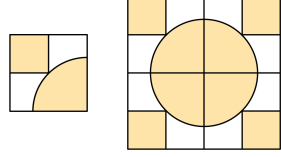
20. 다음 무늬를 보고, 180°로 돌리기 하여 똑같은 무늬를 얻을 수 있는 것을 모두 고르시오.



답: _____

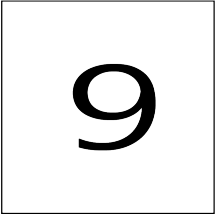
답: _____

21. 왼쪽 무늬를 움직여서 오른쪽 무늬를 만들 수 있는 방법을 모두 나열한 것은 어느 것입니까?

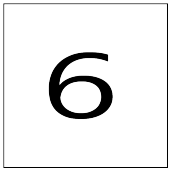


- | | |
|------------|-----------|
| ① 밀기 | ② 돌리기 |
| ③ 뒤집기 | ④ 밀기, 돌리기 |
| ⑤ 돌리기, 뒤집기 | |

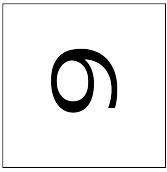
22. 다음 숫자 카드를 아래로 밀었을 때의 모양은 어느 것입니까?



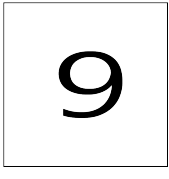
①



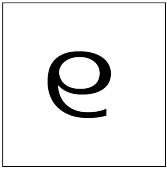
②



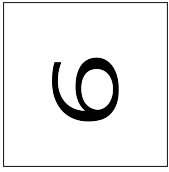
③



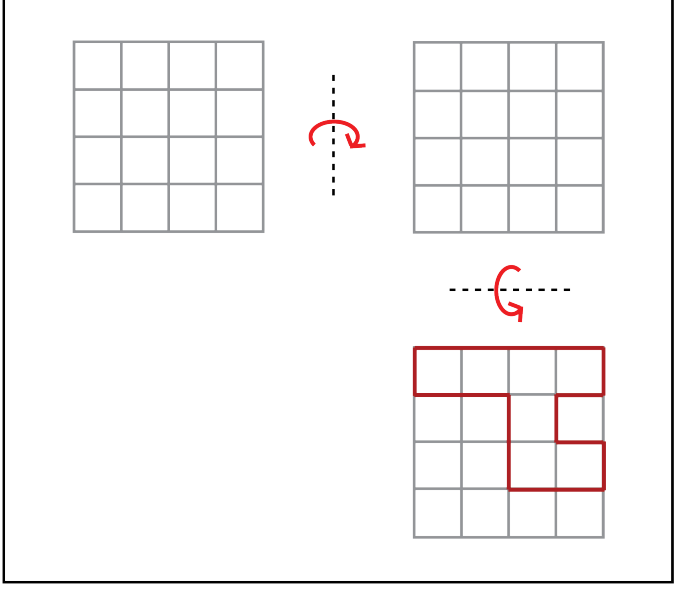
④



⑤



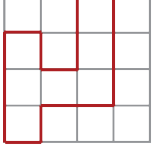
23. 다음과 같이 어떤 도형을 오른쪽으로 뒤집은 다음 다시 아래쪽으로 뒤집었습니다. 원래의 모양은 어느 것입니까?

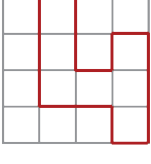


- ①
- ②
- ③
- ④
- ⑤

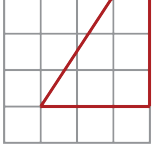
24. 다음 중 도형을 뒤집은 모양이 옳지 않은 것은 어느 것입니까?

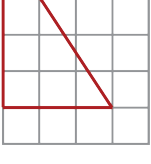
①



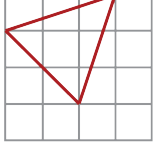


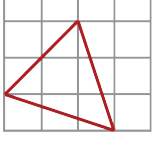
②



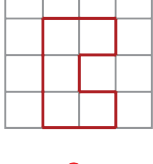


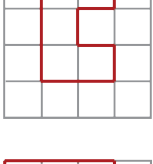
③



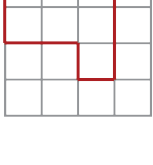


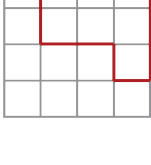
④





⑤

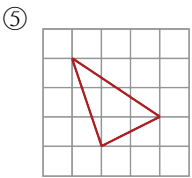
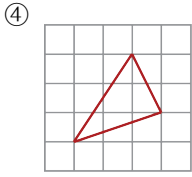
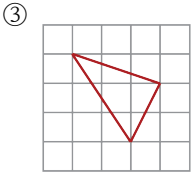
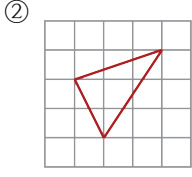
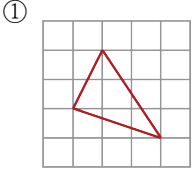
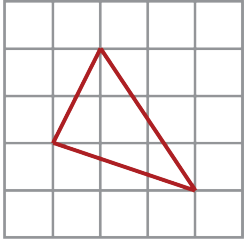




25. 다음 중 도형을 뒤집었을 때의 모양이 나머지와 다른 하나는 어느 것입니까?

- ① 오른쪽으로 4번 뒤집기
- ② 왼쪽으로 3번 뒤집기
- ③ 위쪽으로 2번 뒤집기
- ④ 아래쪽으로 6번 뒤집기
- ⑤ 오른쪽으로 1번, 왼쪽으로 1번 뒤집기

26. 다음 도형을 위쪽으로 6번 뒤집었을 때의 도형은 어느 것입니까?



27. 다음 영어 알파벳 대문자 중 왼쪽으로 뒤집어도 처음 모양과 같은 것은 어느 것입니까?

①

A

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B

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C

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D

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E

28. 다음 영어 알파벳 대문자 중 아래쪽으로 뒤집었을 때 처음 모양과 같지 않은 것은 어느 것입니까?

- ①

O
- ②

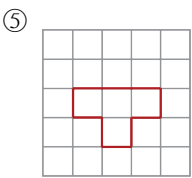
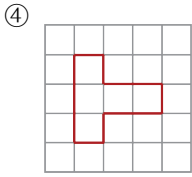
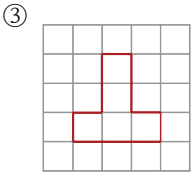
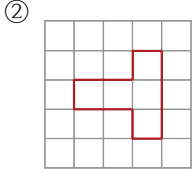
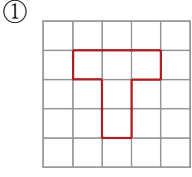
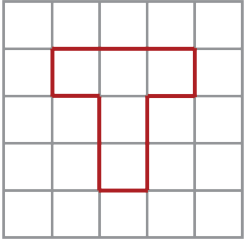
G
- ③

I
- ④

H
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K

29. 다음 도형을 아래쪽으로 5번 뒤집었을 때의 도형은 어느 것입니까?



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

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0

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③

6

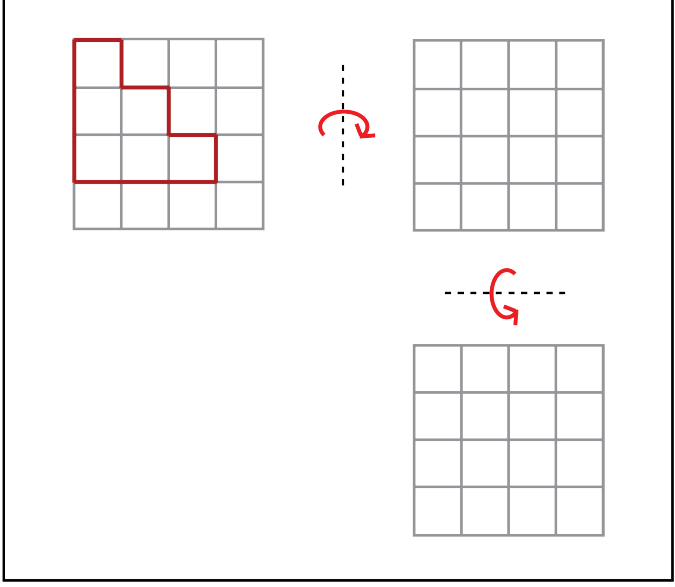
④

8

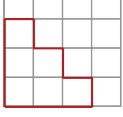
⑤

9

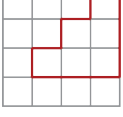
31. 도형을 오른쪽으로 뒤집은 다음 다시 아래쪽으로 뒤집었을 때의 모양은 어느 것입니까?



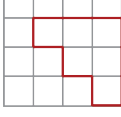
①



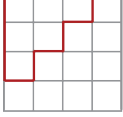
②



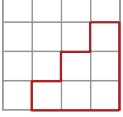
③



④



⑤

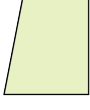


32. 다음 도형 중에서 왼쪽으로 뒤집었을 때의 도형이 처음 도형과 같은 것을 모두 찾아 기호를 쓰시오.

가



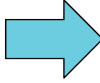
나



다



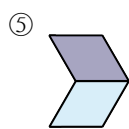
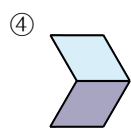
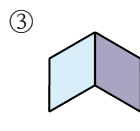
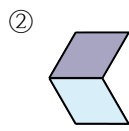
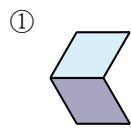
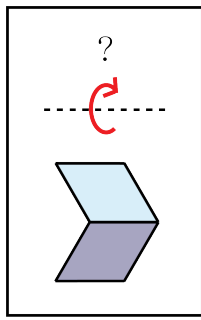
라



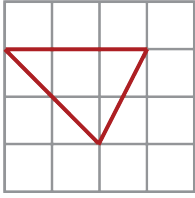
 답: _____

 답: _____

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



34. 다음 도형을 아래쪽으로 뒤집었을 때의 도형을 가, 나 중 고르시오.

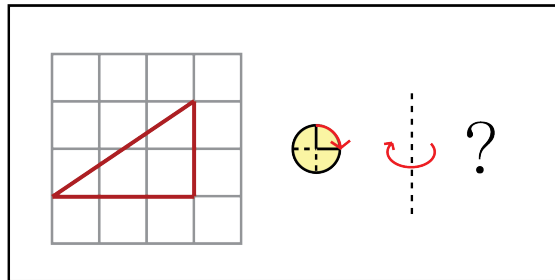


가

나

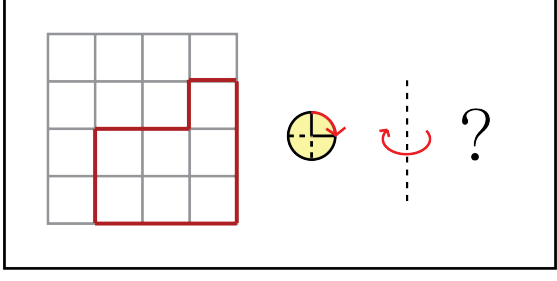
 답: _____

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

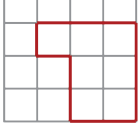


- ①
- ②
- ③
- ④
- ⑤

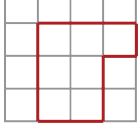
36. 도형을 시계 방향으로 90°만큼 돌리고 왼쪽으로 뒤집었을 때의 도형은 어느 것입니까?



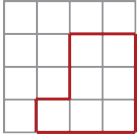
①



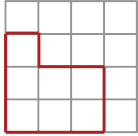
②



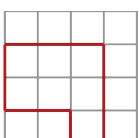
③



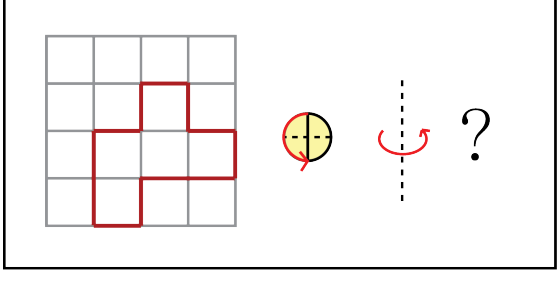
④



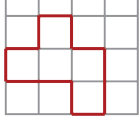
⑤



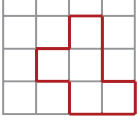
37. 도형을 시계 반대 방향으로 180°만큼 돌리고 오른쪽으로 뒤집었을 때의 도형은 어느 것입니까?



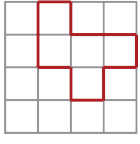
①



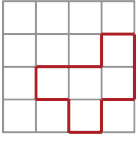
②



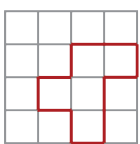
③



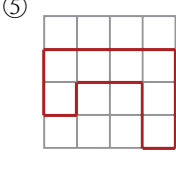
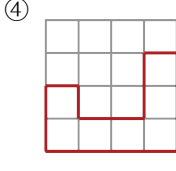
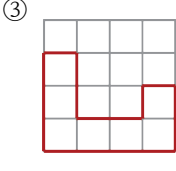
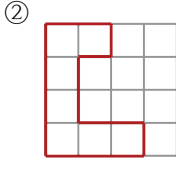
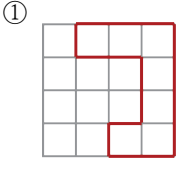
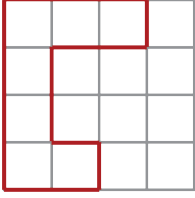
④



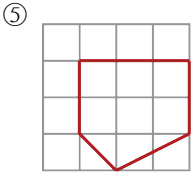
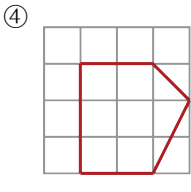
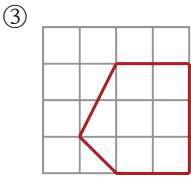
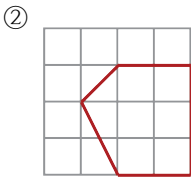
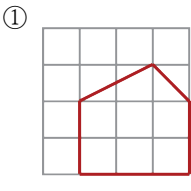
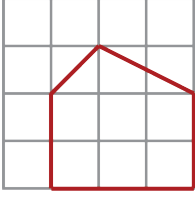
⑤



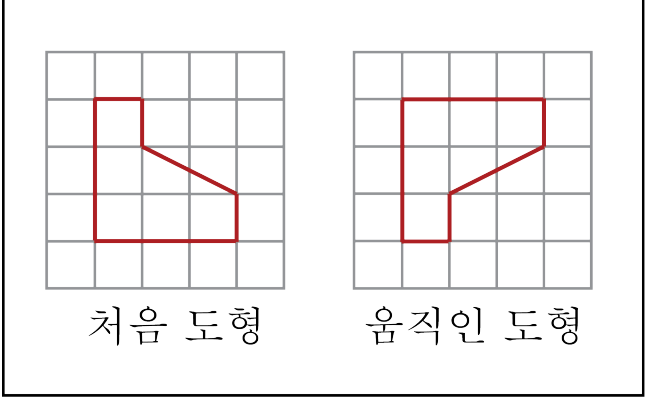
38. 도형을 아래쪽으로 뒤집고 시계 방향으로 180°만큼 돌렸을 때의 도형은 어느 것입니까?



39. 도형을 시계 방향으로 270°만큼 돌리고 위쪽으로 뒤집었을 때의 도형은 어느 것입니까?



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

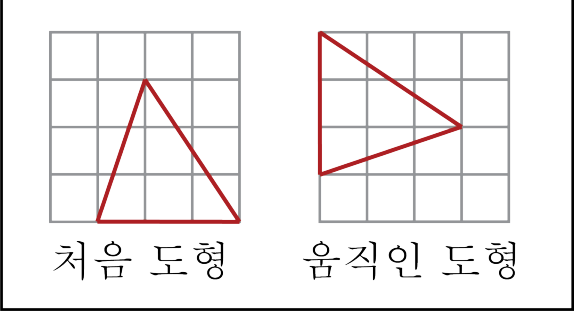


- ㉠ 오른쪽으로 밀고 위쪽으로 뒤집기
- ㉡ 아래로 밀고 오른쪽으로 뒤집기
- ㉢ 시계 반대 방향으로 90°돌리고 아래쪽으로 뒤집기
- ㉣ 시계 방향으로 180°돌리고 왼쪽으로 뒤집기

☐ 답: _____

☐ 답: _____

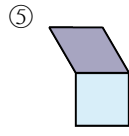
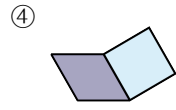
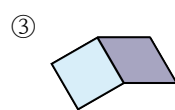
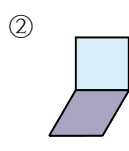
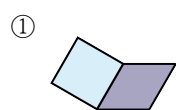
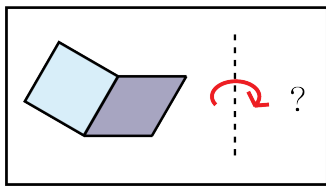
41. 다음 도형의 이동에 대한 설명을 보고 안에 알맞은 수를 써넣으시오.



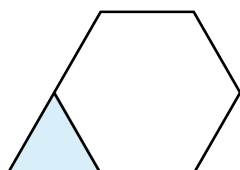
처음 도형을 왼쪽으로 뒤집고 시계 방향으로 ° 돌리면 움직인 도형이 됩니다.

답:

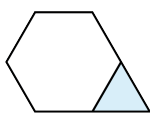
42. 모양 조각을 오른쪽으로 뒤집었을 때의 모양은 어느 것입니까?



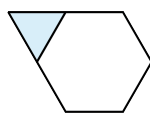
43. 도형을 위로 밀고 오른쪽으로 4번 뒤집고 시계 반대 방향으로 90° 만큼 3번 돌렸을 때의 도형은 어느 것입니까?



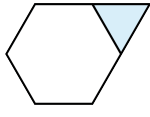
①



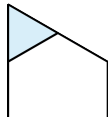
②



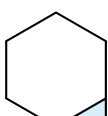
③



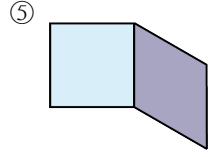
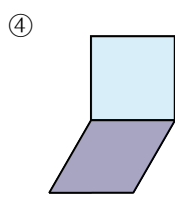
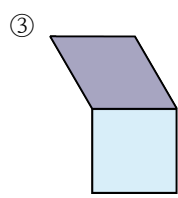
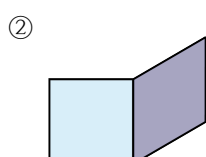
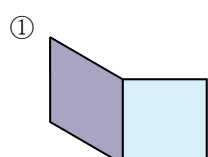
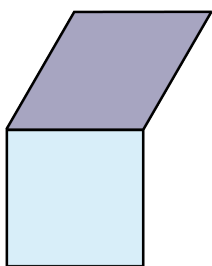
④



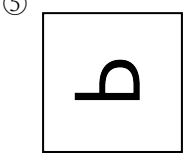
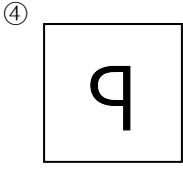
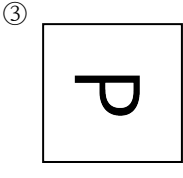
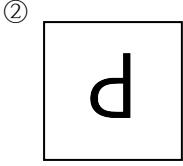
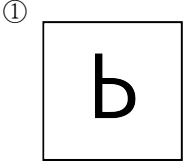
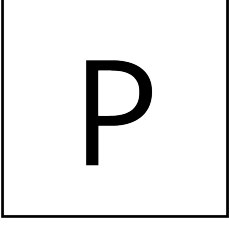
⑤



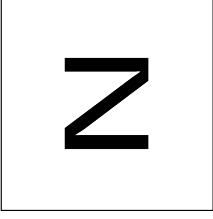
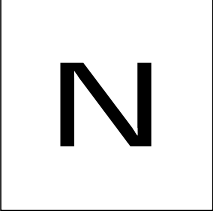
44. 도형을 아래쪽으로 6번 뒤집고 시계 방향으로 180° 만큼 3번 돌렸을 때의 도형은 어느 것입니까?



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



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

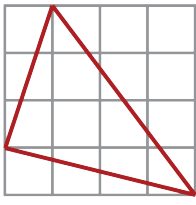


- ㉠ 시계 방향으로 90°돌리기
- ㉡ 시계 반대 방향으로 90°돌리기
- ㉢ 시계 방향으로 180°돌리고 왼쪽으로 뒤집기
- ㉣ 위쪽으로 뒤집고 시계 방향으로 270°돌리기

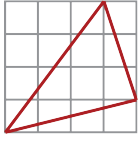
 답: _____

 답: _____

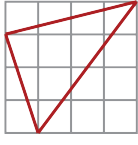
47. 도형을 오른쪽으로 밀고 왼쪽으로 5번 뒤집은 다음 시계 방향으로 180° 만큼 돌렸을 때의 도형은 어느 것입니까?



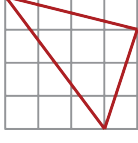
①



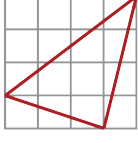
②



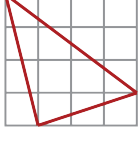
③



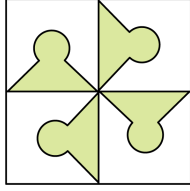
④



⑤

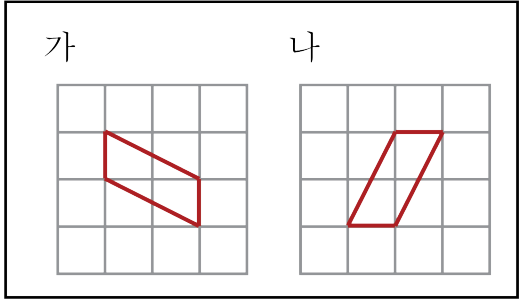
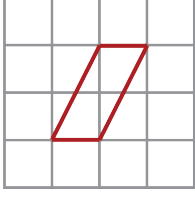


48. 다음 무늬는 어떤 한 가지 모양을 이어 붙여 만든 것입니다. 다음 중에서 어떤 규칙을 사용한 것입니까?



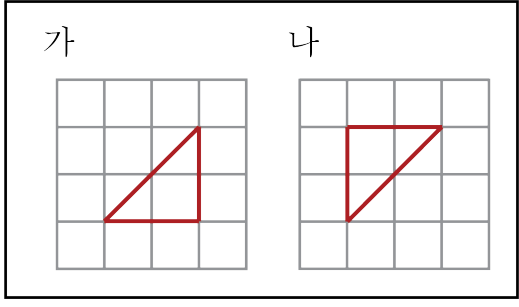
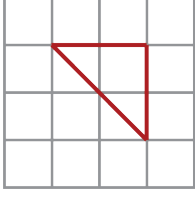
- ① 밀기 ② 뒤집기 ③ 돌리기
④ 밀고 뒤집기 ⑤ 뒤집고 돌리기

49. 도형을 시계 방향으로 180°만큼 돌렸을 때의 도형을 가, 나 중 고르시오.



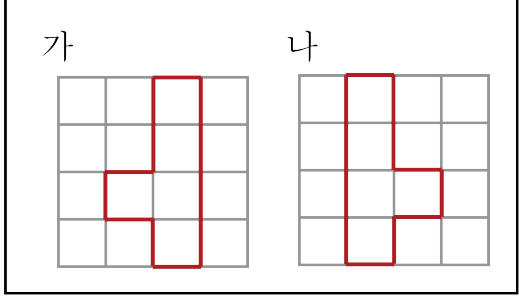
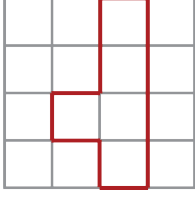
 답: _____

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



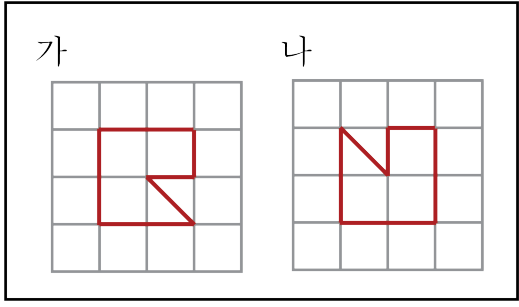
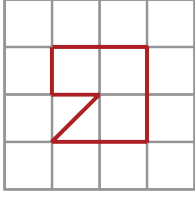
 답: _____

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



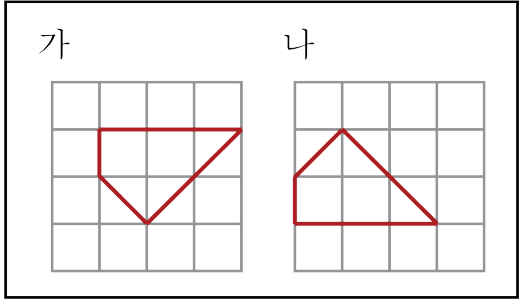
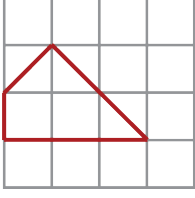
 답: _____

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



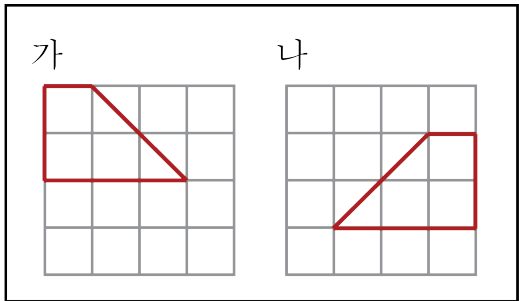
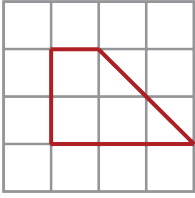
 답: _____

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



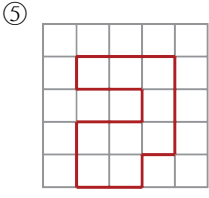
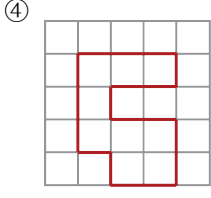
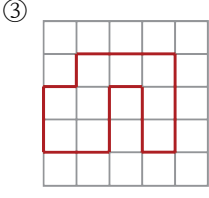
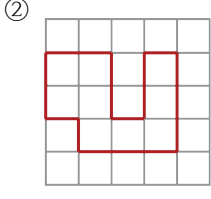
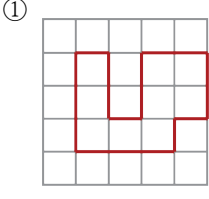
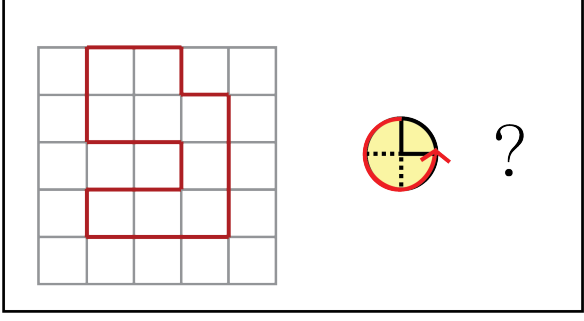
 답: _____

54. 다음 도형을 오른쪽으로 뒤집었을 때의 도형을 가, 나 중 고르시오.

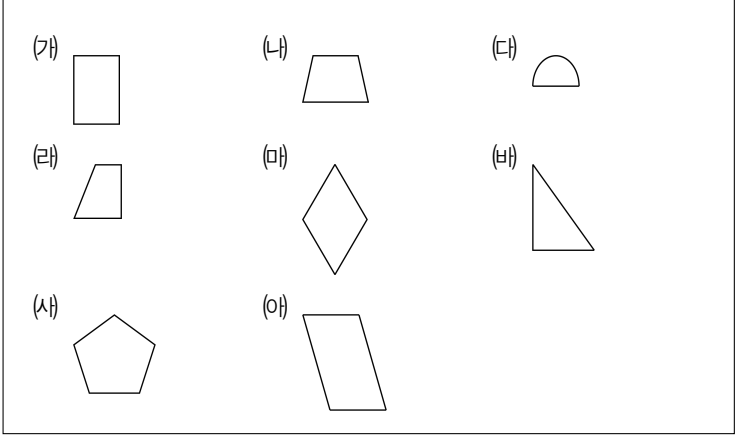


 답: _____

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



56. 다음 도형을 보고, 오른쪽으로 뒤집기를 하여 처음 도형과 같은 도형을 얻을 수 있는 도형은 모두 몇 개입니까?



▶ 답: _____ 개

57. 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

58. 다음 영어 알파벳 대문자 중 왼쪽, 오른쪽, 위쪽, 아래쪽 중 어느 쪽으로 뒤집어도 처음 모양과 같은 것은 어느 것입니까?

①

F

②

H

③

S

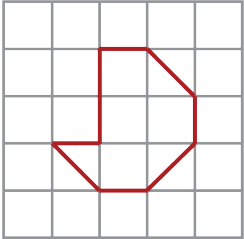
④

T

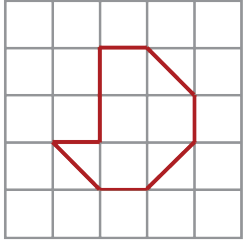
⑤

U

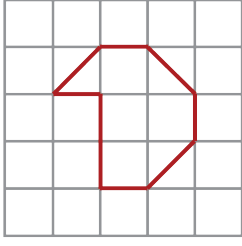
59. 다음 도형을 오른쪽으로 3번 뒤집었을 때의 도형을 고르시오.



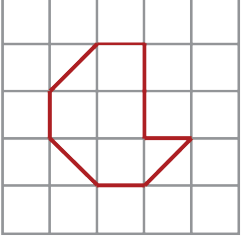
㉠



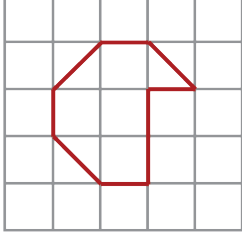
㉡



㉢



㉣



▶ 답: _____

60. 1186 을 오른쪽으로 반 바퀴 돌려 생기는 수와 처음 수와의 차는 얼마인지 구하시오.

 답: _____