



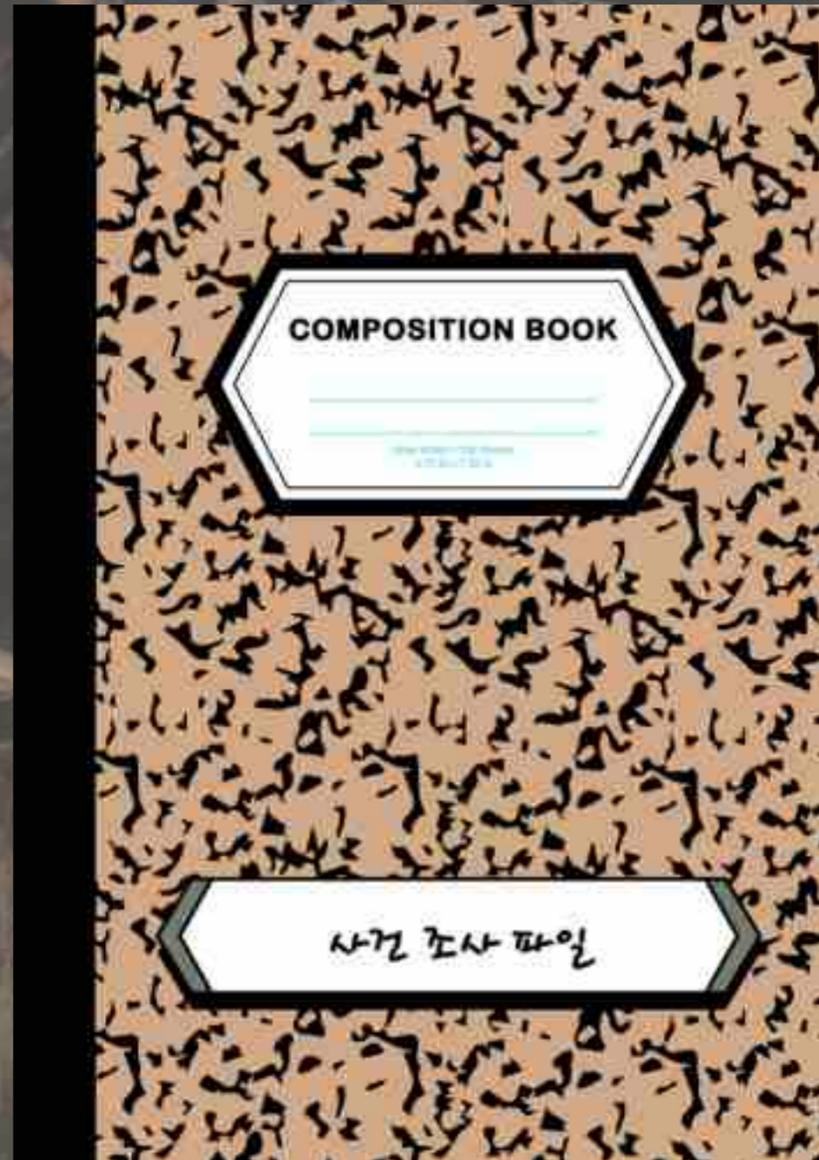
할아버지의 유품:
단서를 따라가는 경복궁 탐험



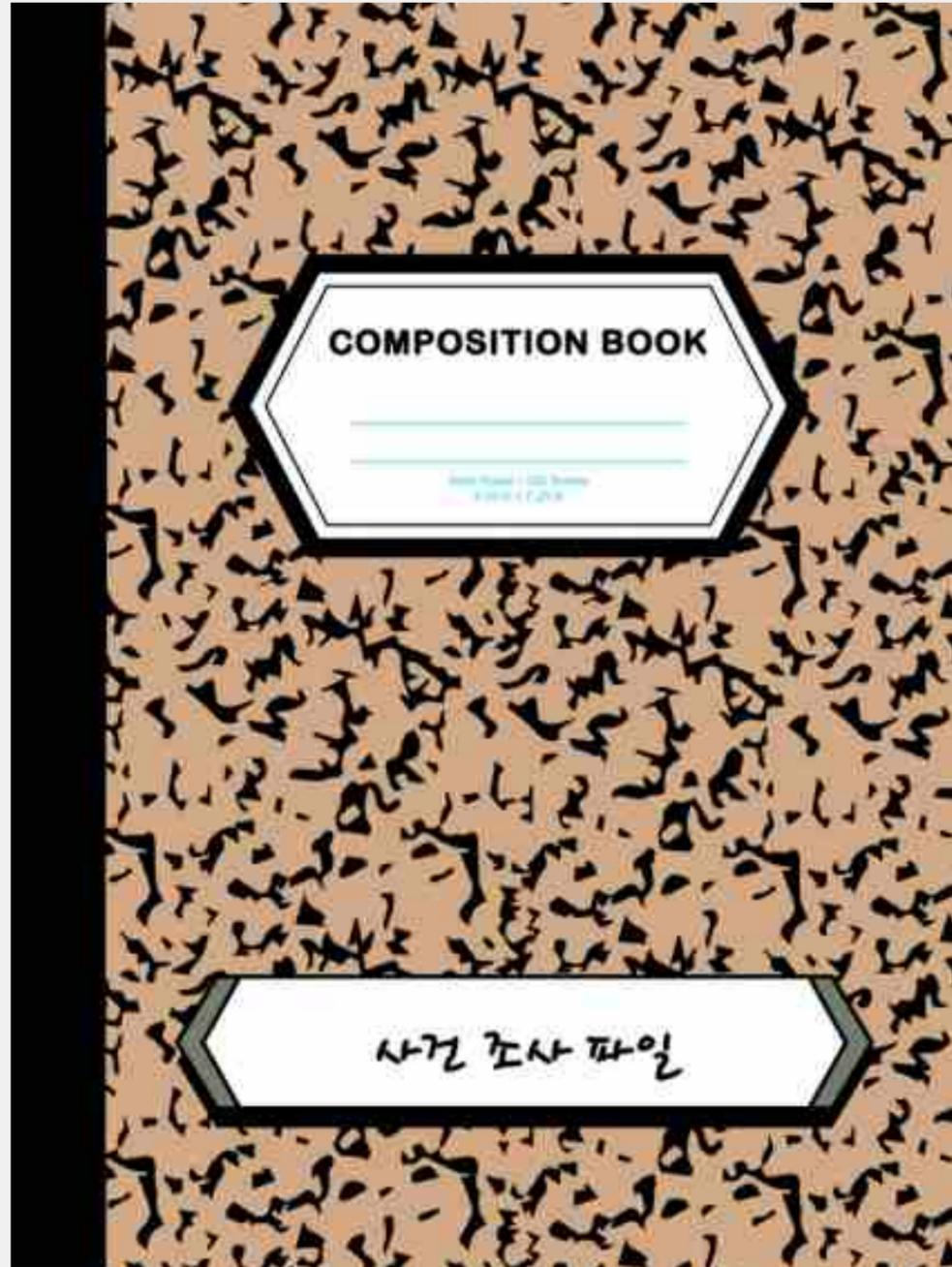
1차시

사건 파일 해독:
경복궁 속 조상들의 지혜
발견하기

이 수첩 속에는
내가 찾지 못한
보물의 흔적이 담겨 있다.
남은 단서는 이걸 발견한 자의
몫이겠지...



TUTORIAL



THE BLUEPRINT OF WISDOM: A LOOK AT GYEONGBOKGUNG'S MATH AND SCIENCE

Read the text.

The founders of the Joseon Dynasty chose Hanyang as their capital city. They wanted the new country to be governed by the principles of Confucianism, which includes concepts like Yin and Yang and the Five Elements (Ohaeng). Look at the picture on your right. You can easily figure out what colors and elements are in Ohaeng. This philosophy is reflected in Gyeongbokgung Palace.



THE SYMBOLISM OF NUMBER THREE

In Confucianism, the number three was considered the most harmonious number, symbolizing the balance of Yin and Yang. To meet the king, officials had to pass through three main gates: Gwanghwamun, Heungryemun, and Geunjeongmun. Additionally, the main gate, Gwanghwamun, has three large doors. The central door was for the king, while the two side doors were for officials. This design symbolizes how the king and his officials collaborated to rule the nation.

2

1

3



HOW TO?



- 1) 미션은 총 3개의 *CLUE* 수집
- 2) 각 *CLUE*는 사건 조사 파일 속 본문, 사진 자료, QR코드와 연관있음
- 3) *CLUE1* 단서를 풀어 암호호를 써 *NPC*(교사)에게 보여 주면 증거 해독 도구를 얻을 수 있음
- 4) *CLUE1, 2, 3*은 *MASTER KEY CODE*에 필요한 정보를 담고있음

수수께끼와 함께 보물이 묻혀있는
신비롭고 아름다운 궁궐, 경복궁

나는 경복궁에 숨겨진 보물에 대한 이야기를 예전
부터 들어왔고 그것이 실재라고 확신한다.

할아버지의 오래된 오두막 다락에서
이 탐정 수첩을 발견했다.

탐정이었던 할아버지의 이야기를 들으며 잠들었던
나는 언제나 경복궁의 보물에 대한 꿈을 꾸었지.

경복궁의 숨겨진 보물에 관한 수수께끼가 정말
사실이었던 말인가?
정말 보물들이 곳곳에 묻혀있던 말인가?

지도에서 수수께끼를 풀면 보물이 어디에 있는지
알 수 있으리라.

기다려라 보물아, 내가 간다!



탐정 미션

1

CLUE1: 유교 사상

2

CLUE2: 과학적 요소

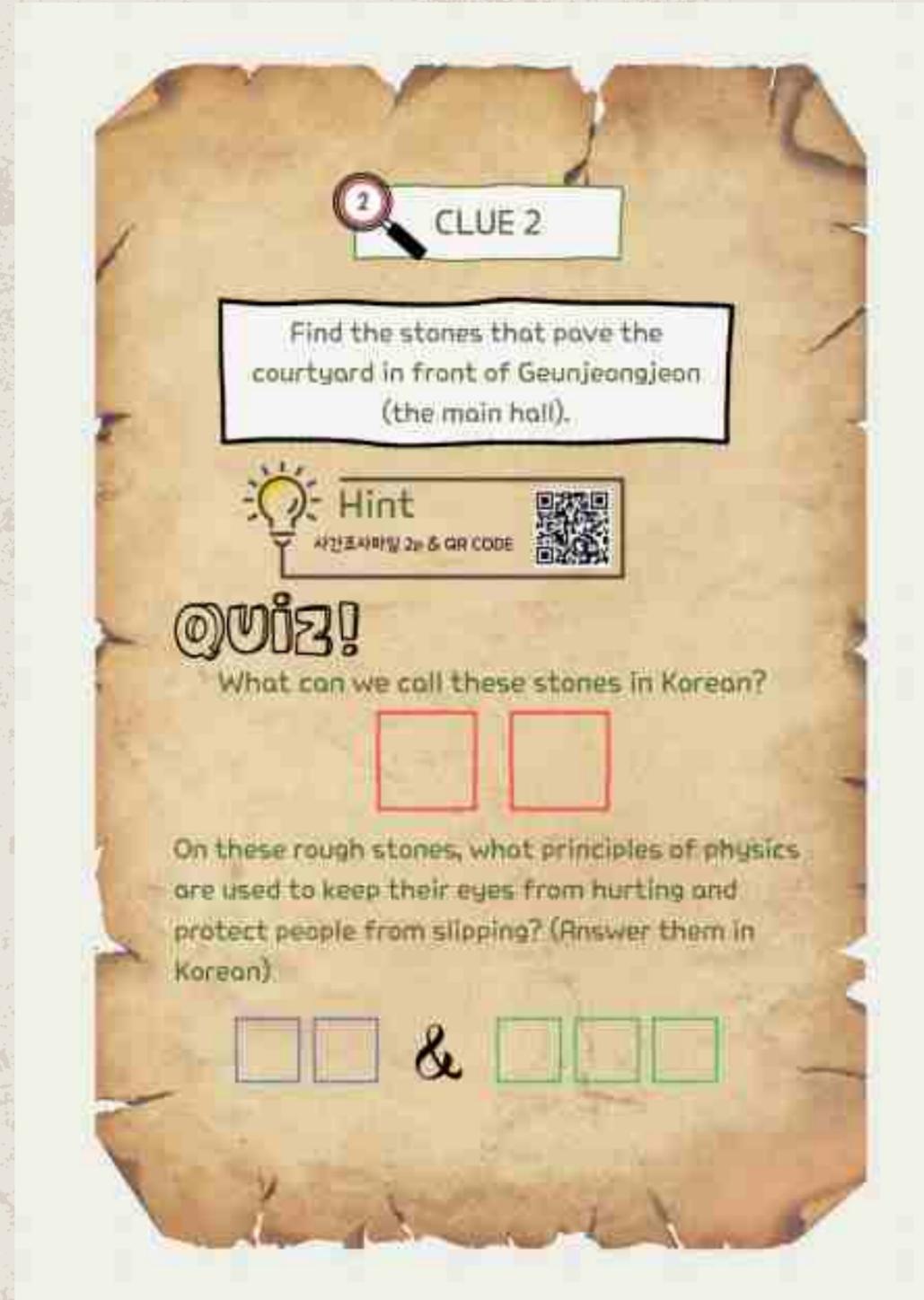
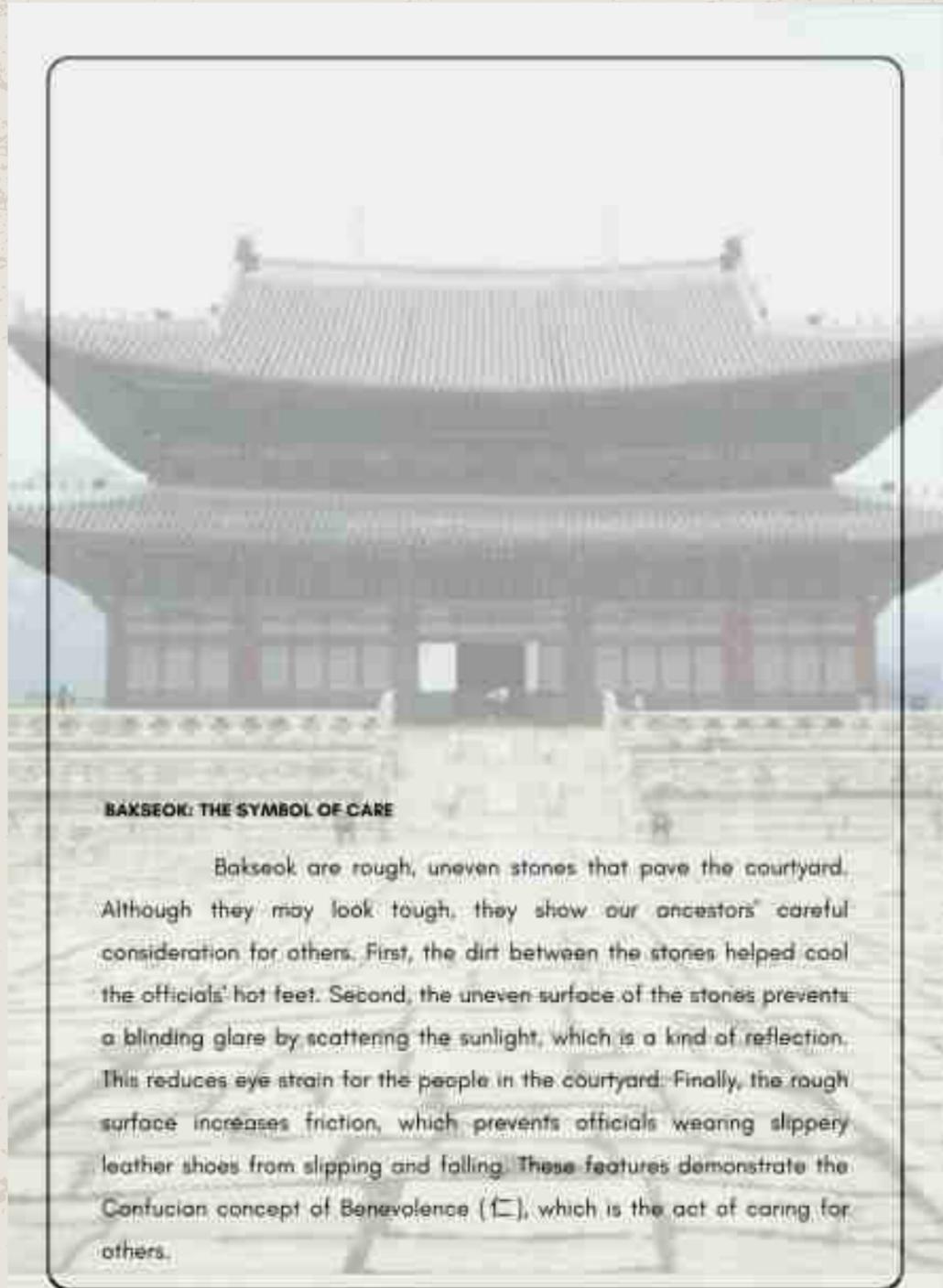
3

CLUE3: 수학적 요소



2

CLUE 2 : 과학적 요소



3

CLUE 2 : 수학적 요소

THE BEAUTY OF SYMMETRY AND TESSELLATION

Beautiful patterns can be found on the palace walls, chimneys, and in the dancheong, or traditional colorful paintwork. These patterns create a balanced and harmonious feeling. Look at the dancheong. Can you find a symmetry, which means the left side is the same as right side, and the top is the same as the bottom? Additionally, our ancestors used tessellation to fill the walls and chimneys with repeating geometric shapes like triangles, squares, and hexagons. This use of geometry added elegance and beauty to Gyeongbokgung's decorations.



Gyeongbokgung Palace Wall



Amisan Chimneys

Ultimately, Gyeongbokgung's design shows that our ancestors' wisdom was not just about building a beautiful palace, but about creating a space that harmonized Confucian values, mathematical and scientific principles, and a deep understanding of human well-being.

CLUE 3

Find a chimney or a wall with beautiful shapes, repeating patterns.

Look at the photo map! You can easily find these patterns at 교태전, 이자간 chimney (사건조사팀 02-312-3121 참고)



QUIZ! Answer them in Korean

What are the names of the mathematical concepts used to create these patterns?

&

을 쉽게 알 수 있는 곳은?

에 사용할 수 있는 도형들은?

각형 & **각형** & **각형**



어?! 저 금고는 뭐지?? 열리는가?
아,,, 잠겨있군,,

단서를 모았지만,
금고는 여전히 닫혀 있다.
금고 안에는 할아버지의
마지막 유산이 있을까?



2차시

경복궁 탐정단:
할아버지 유품으로
경복궁 탐험 선계

탐정 미션

1

금고열기

2

PHOTO SCAVENGER HUNT 준비

3

탐험 루트 발표

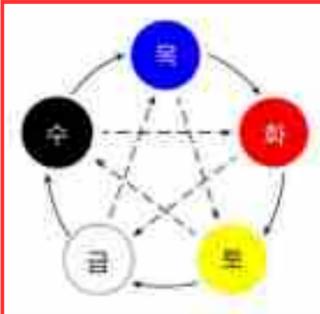


금고열기 및 암호 풀이

THE BLUEPRINT OF WISDOM: A LOOK AT GYEONGBOKGUNG'S MATH AND SCIENCE

Read the text.

The founders of the Joseon Dynasty chose Hanyang as their capital city. They wanted the new country to be governed by the principles of Confucianism, which includes concepts like Yin and Yang and the Five Elements (Ohaeng). Look at the picture on your right. You can easily figure out what colors and elements are in Ohaeng. This philosophy is reflected in Gyeongbokgung Palace.




THE SYMBOLISM OF NUMBER THREE

In Confucianism, the number three was considered the most harmonious number, symbolizing the balance of Yin and Yang. In the Joseon Dynasty, the king, officials had to pass through three gates to reach the palace. The main gate, Gwanghwamun, has three large doors. The central door was for the king, while the two side doors were for officials. This design symbolizes how the king and his officials collaborated to rule the nation.



오행의 색은?

음양오행의 요소는?

왕을 만나러 가기 위해 통과해야하는 문 3개의 이름은?

CLUE 1
사건일지 1p 참고

What colors are in Ohaeng?
red blue yellow
black white

What elements are in Ohaeng?
wood water fire
metal earth

Find the three main gates that officials had to pass through to meet the king.

Look at the palace map!
The gates are in a straight line from the entrance to the main hall.

What are the three gates' names in Korean?

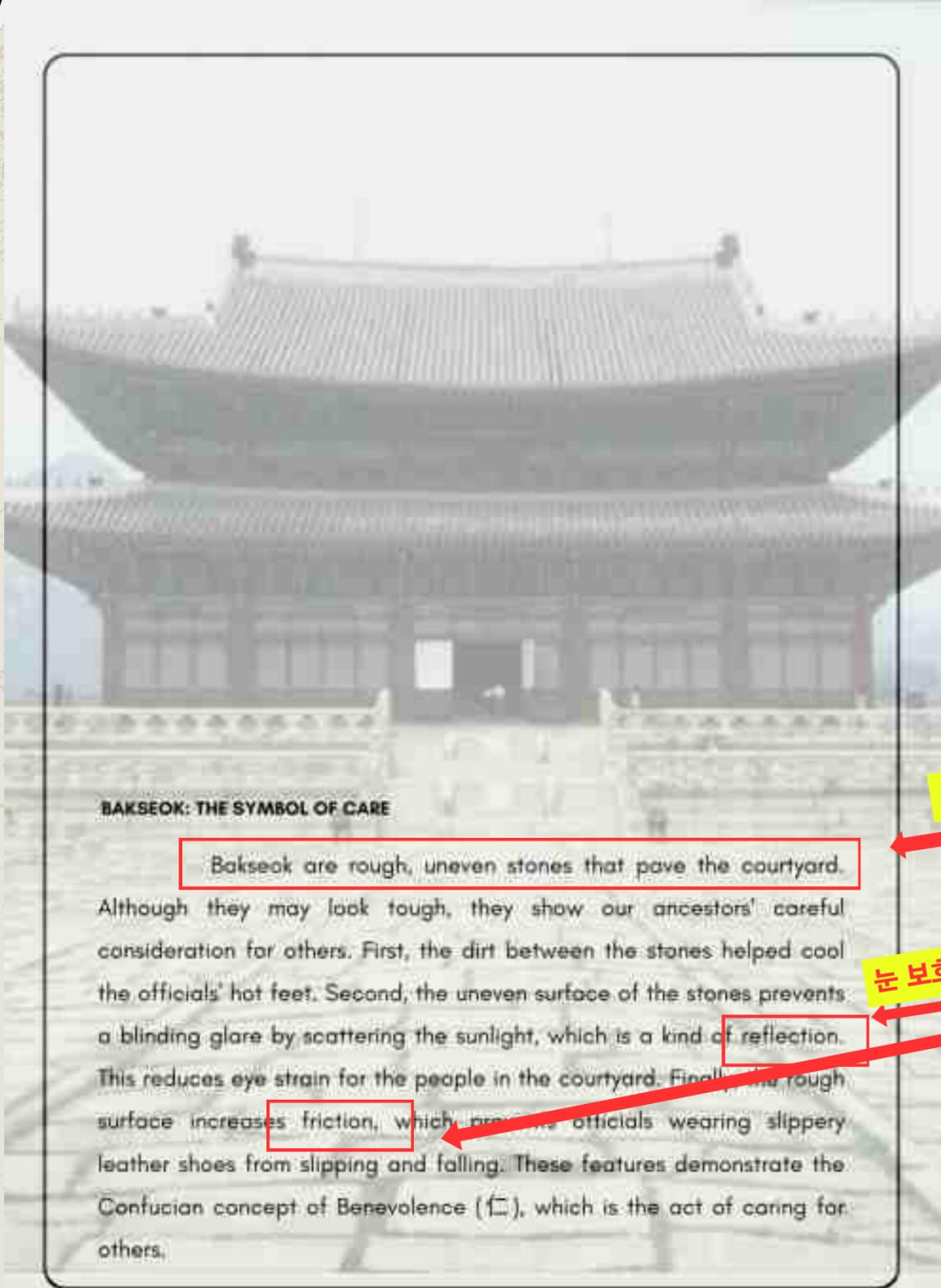
관	화	대
이	정	대
리	정	대

세 개의 문 이름을 순서대로 찾아 쓰고, NPC(교사)에게 암구호를 적어 비밀스럽게 제출하라. 암구호를 맞히면 증거 해독 도구를 얻을 수 있다.



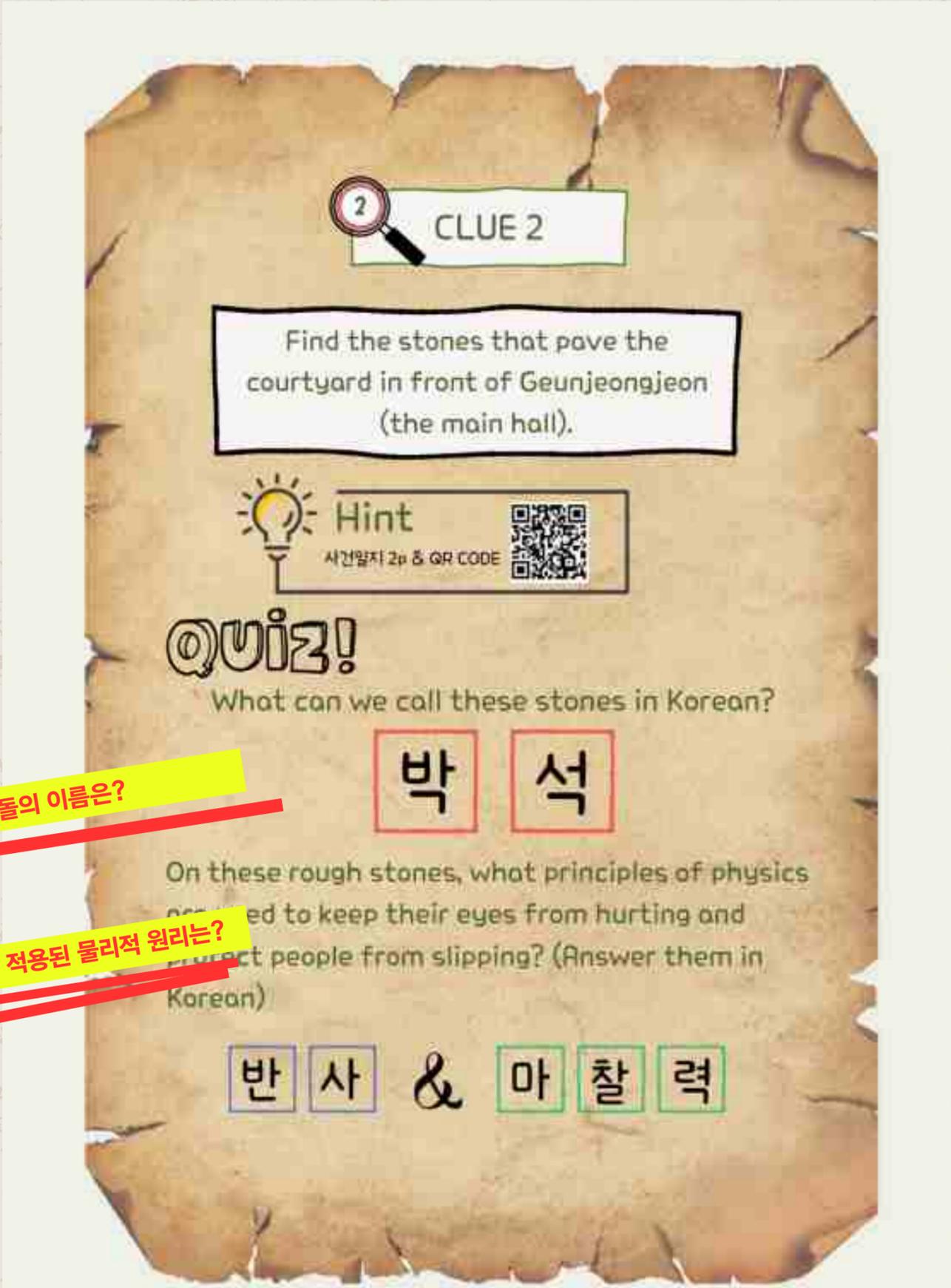
1

금고열기 및 암호 풀이



근정전 마당에 깔린 돌의 이름은?

눈 보호와 미끄러짐 방지를 위해 박석에 적용된 물리적 원리는?

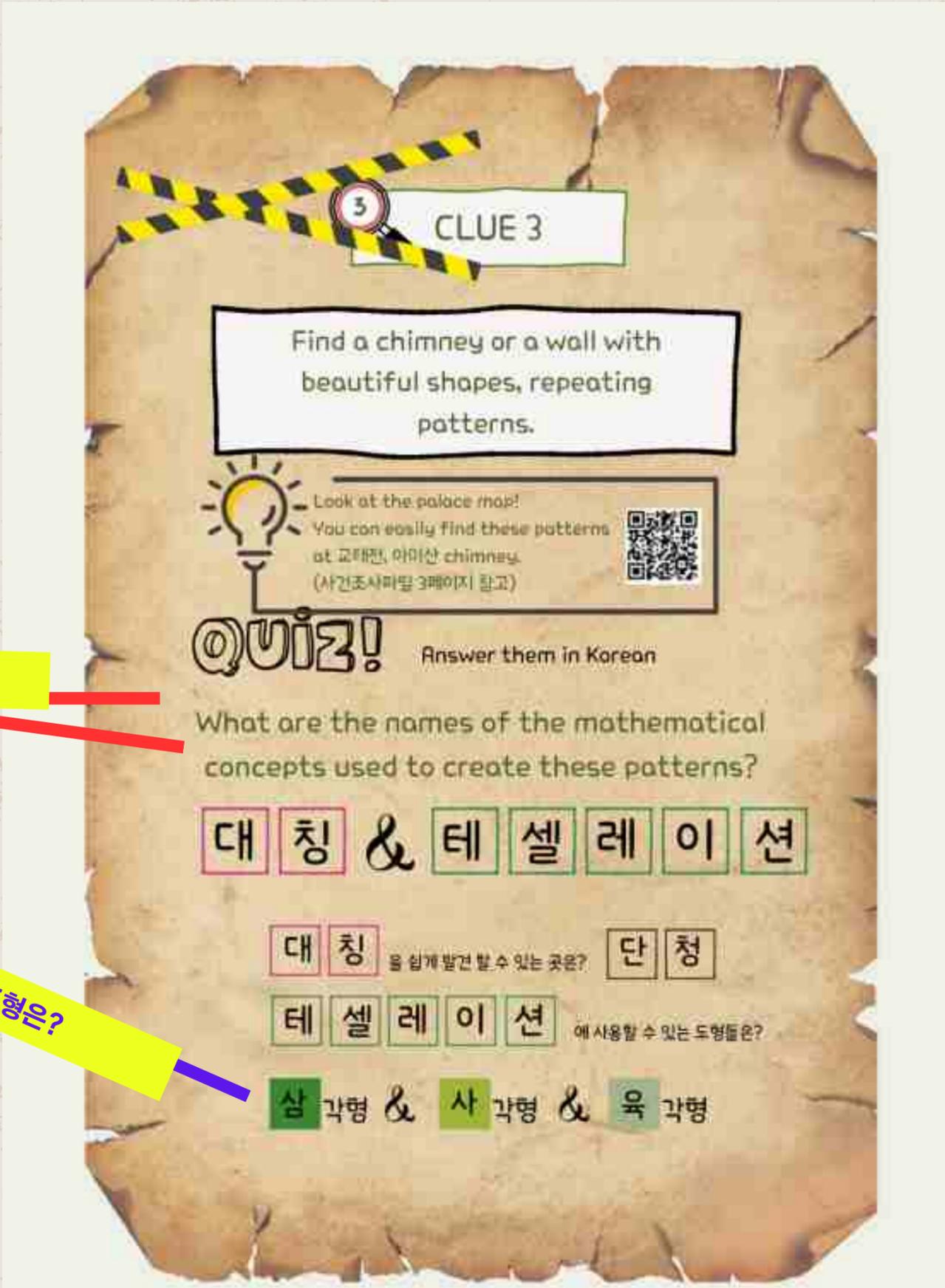


금고열기 및 암호 풀이



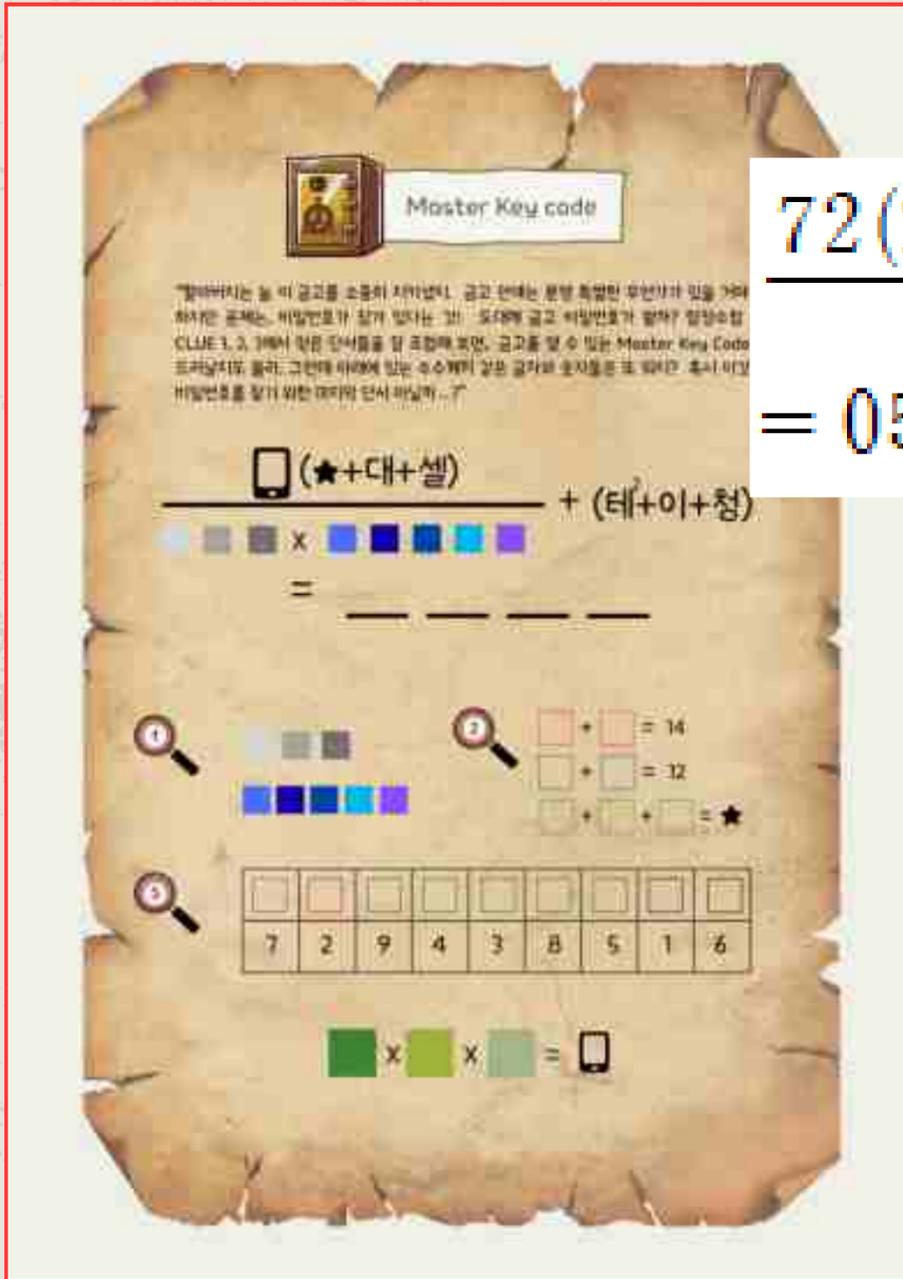
이러한 패턴을 만들기 위해 사용된 수학적 개념은?

테셀레이션에 사용할 수 있는 도형은?

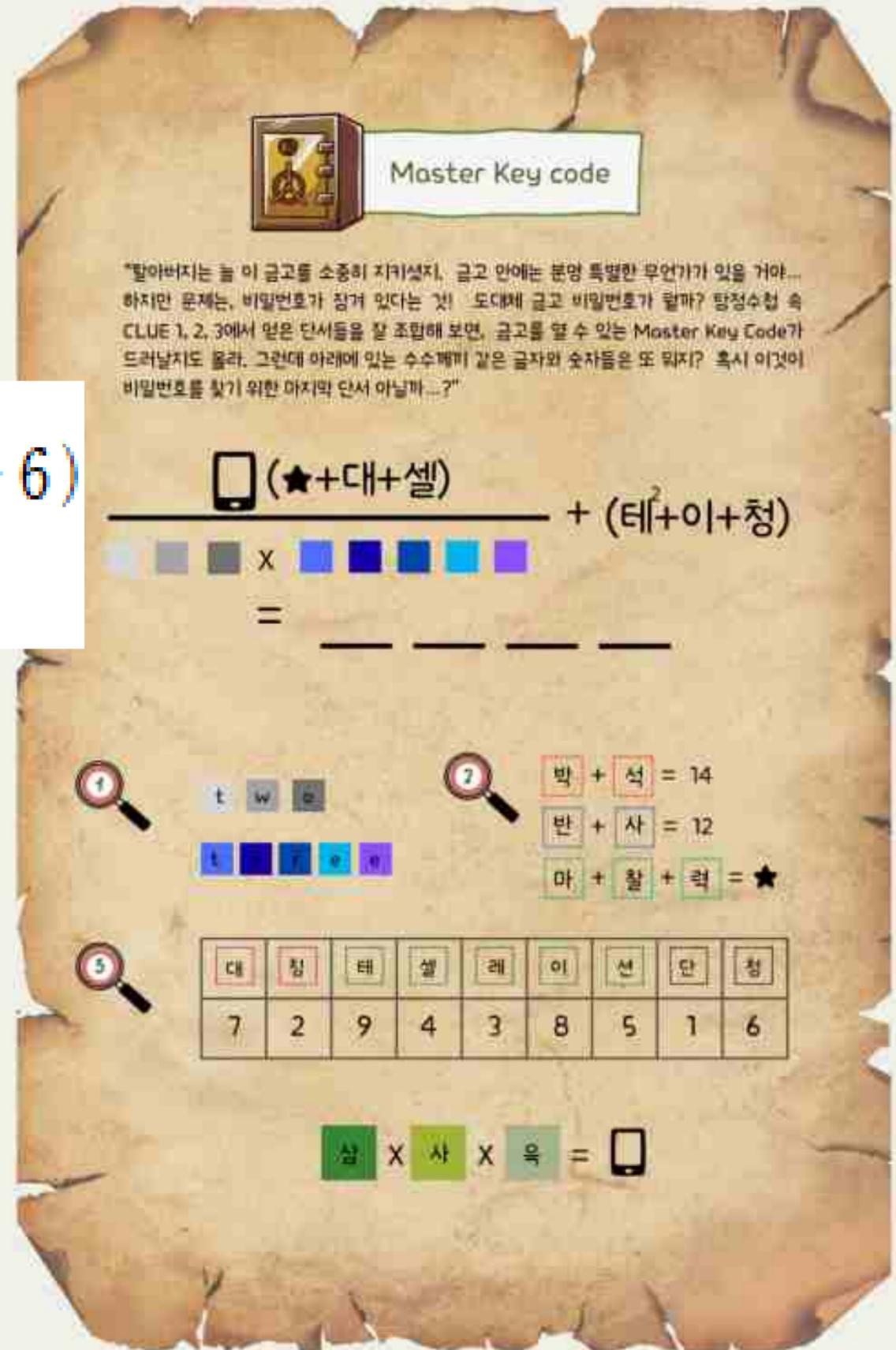


1

금고열기 및 암호 풀이



$$\frac{72(27 + 7 + 4)}{2 \times 3} + (9^2 + 8 + 6) = 0551$$



2

PHOTO SCAVENGER HUNT 준비

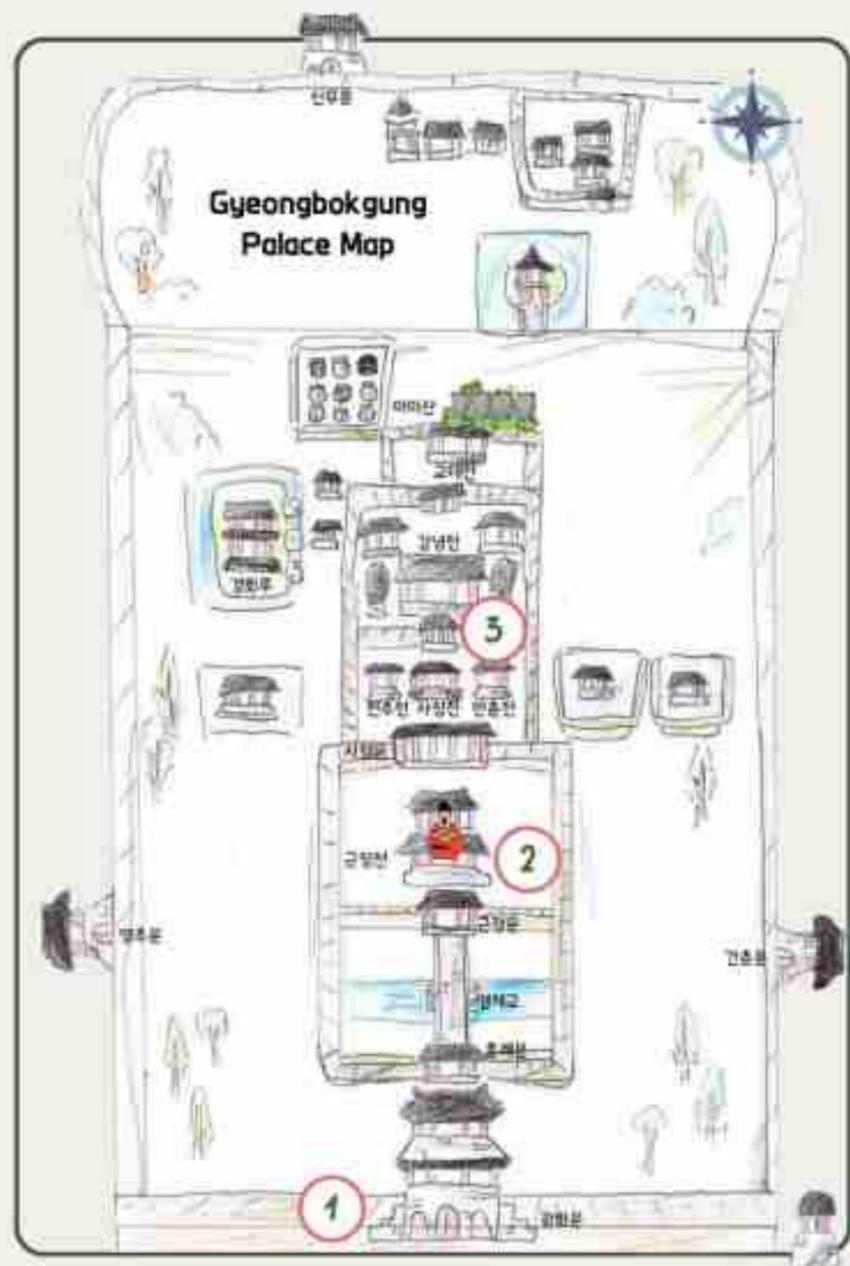
A grid for a photo scavenger hunt at Gyeongbokgung Palace. The grid contains 20 items to find, each with an icon and a label. The items are: something related to Yin and Yang, red, yellow, blue, black, white, wood, fire, something related to the number three, metal, water, feet on Daikseok, animal, flower, triangle, square, hexagon, multi-shape tessellation, and symmetry.

 something related to Yin and Yang	 red	 yellow	 blue
 black	 white	 wood	 fire
 feet on Daikseok	 metal	 water	 something related to number three
 feet on Daikseok	 animal	 flower	 triangle
 square	 hexagon	 multi-shape tessellation	 symmetry



A treasure map graphic with a parchment texture. It features the text 'TREASURE MAP' at the top, followed by Korean text: '보물지도 부착 구역: (Photo Scavenger Hunt)' and '미완의 탐험을 이어간다.' (Continuing the unfinished exploration.)





[영어 표현 가이드]

① 항목 소개하기

I will take a picture of _____. (나는 _____을 찍을 것이다.)

Our team will find _____. (우리 팀은 _____을 찾을 것이다.)

예시: I will take a picture of the paving stones, Bakseok. (나는 박석을 찍을 것이다.)

② 위치 설명하기

It is in front of _____. (그것은 _____앞에 있다.)

It is behind _____. (그것은 _____뒤에 있다.)

It is next to _____. (그것은 _____옆에 있다.)

It is inside _____. (그것은 _____안에 있다.)

예시: It is in front of Geunjeongjeon.

(그것은 근정전 앞에 있다.)

③ 루트 연결하기

First, we will go to _____. Then, we will go to _____.

(먼저 _____에 가고, 그다음 _____에 간다.)

예시: First, we will go to Gwanghwamun. Then, we will go to Geunjeongjeon.

4

활동예고(보물이 숨겨진 장소에 대한 힌트요소 찾아가서 사진찍기)



WELL DONE!

현장 체험 학습 예고

Photo Scavenger Hunt

맞은 항목 꼭 촬영하기

모뎀별 루트 지키기

친구와 함께 협력하기

문화재 보호 & 안전 우선