

Patterns in Building

Architects (AR-kuh-tekts) use many shapes to design buildings. Rooms are often square shaped. Doors and windows are rectangles. Bricks and tiles are also many shapes. They can form patterns. Sometimes, patterns are made to decorate the **facade** (fuh-SAHHD).



The San Remo apartments in New York City

Architects often design buildings with sets of columns and arches. These can form patterns that decorate the building.



The arches in the Colosseum (ko-luh-SEE-uhm) in Rome create a continuous pattern around the building.

LET'S EXPLORE MATH

Architects also use windows to create patterns on buildings. Draw the table and answer the questions.

- What are the missing numbers in the table?
- What is the rule for the number pattern in the table?

Number of Windows on Each Story of the Building

Story	Windows
2	6
3	9
4	

Patterns in Art

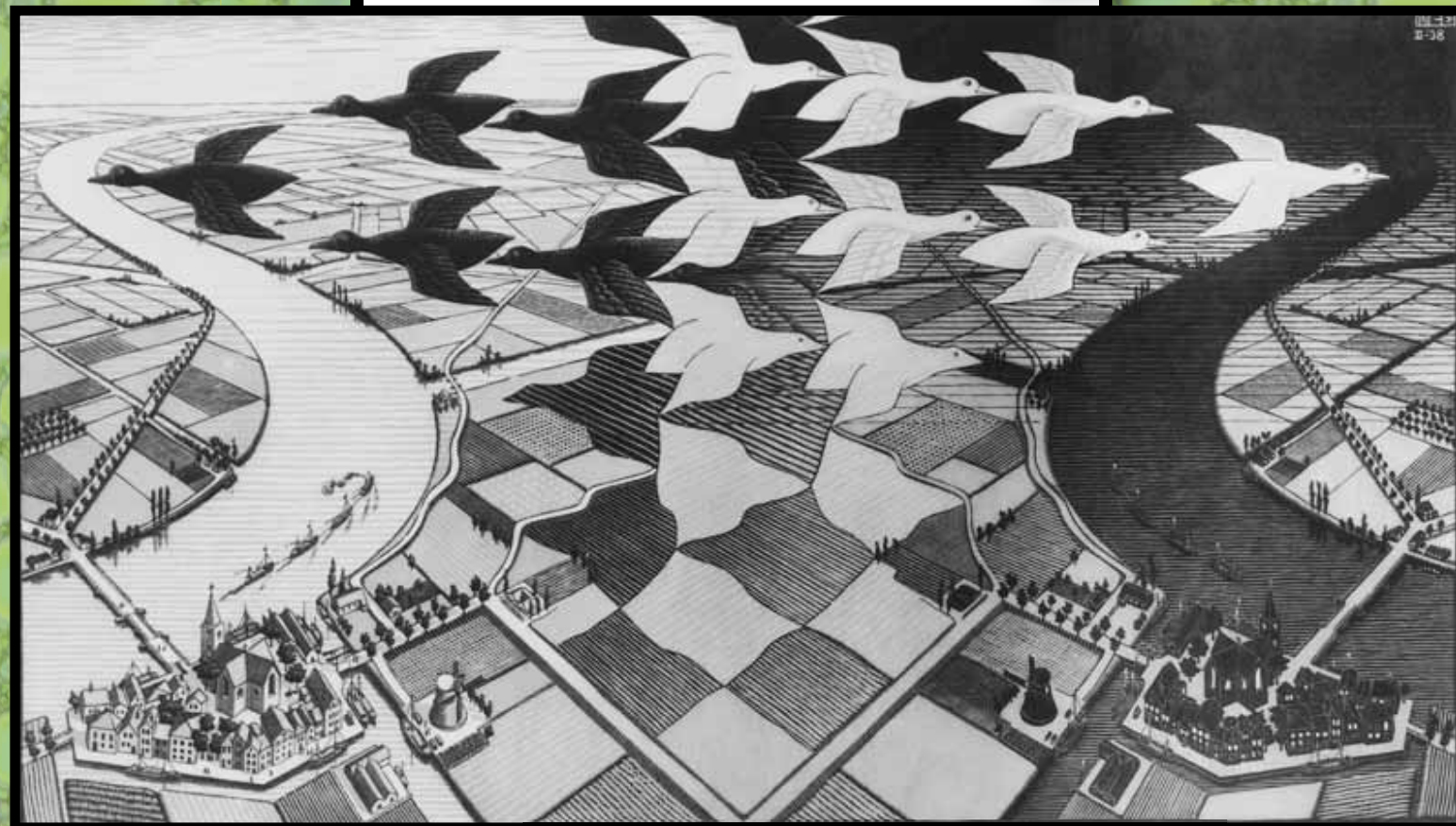
Artists have used patterns in paintings and other works of art for thousands of years. Patterns are often used to add interest to pictures.



This Egyptian artwork has many different patterns forming the border that frames the picture.

Some forms of art have patterns that have special meaning. Look at this ancient **Celtic** (KEL-tik) art. The spiral pattern stands for the sun.

Some artists use patterns to make artwork more interesting. In the picture below, the pattern on the field continues into the sky.



M. C. Escher used pictures to create complex patterns that look **three-dimensional**.