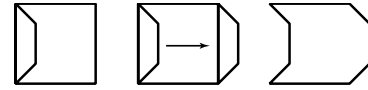


# Translations (pages 392–394)

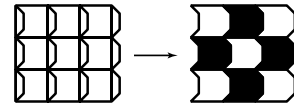
A **translation** is sliding part of a drawing to another place without turning it.

## EXAMPLE

The square to the right has had the left side changed. To make sure the pieces, or pattern units, will tessellate, slide or translate the change to the opposite side and copy it.

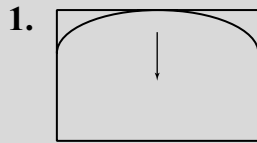


Now change all of the squares in a tessellation the same way. The tessellation takes on qualities like paintings by M. C. Escher when you add different colors or designs.



### Try This Together

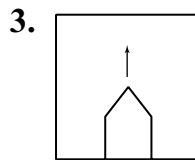
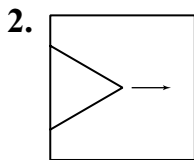
**Complete the pattern unit for the translation. Then draw the tessellation.**



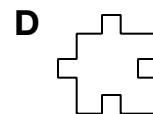
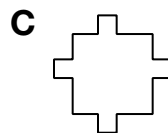
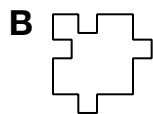
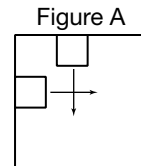
*HINT: In the tessellation, all of the pieces must fit together.*

### PRACTICE

**Complete the pattern unit for each translation. Then draw the tessellation.**



4. **Standardized Test Practice** Which shows the completed pattern unit for Figure A?



Answers: 1–3. See Answer Key. 4. B