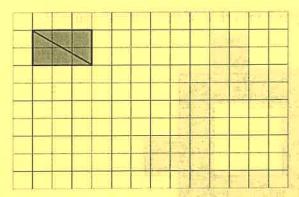
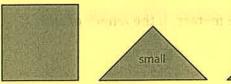
Unit 1, Lesson 2: Finding Area by Decomposing and Rearranging

1. The diagonal of a rectangle is shown.

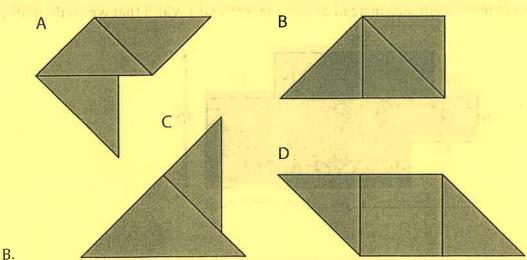


- A. Decompose the rectangle along the diagonal, and recompose the two pieces to make a *different* shape.
- B. How does the area of this new shape compare to the area of the original rectangle? Explain how you know.
- 2. The area of the square is 1 square unit. Two small triangles can be put together to make a square or to make a medium triangle.



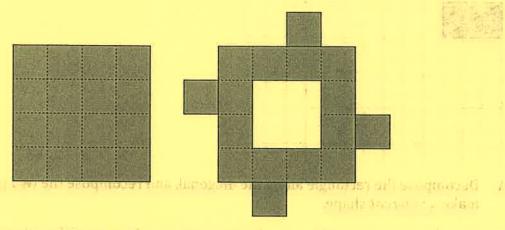
A. Which figure also has an area of $1\frac{1}{2}$ square units? Select all that apply.

medium

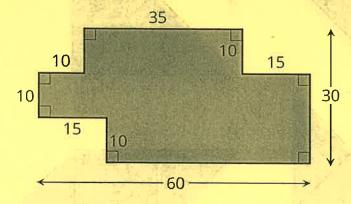


3. Priya decomposed a square into 16 smaller, equal-size squares and then cut out 4 of the small squares and attached them around the outside of original square to make a new figure.

How does the area of her new figure compare with that of the original square?



- A. The area of the new figure is greater.
- B. The two figures have the same area.
- C. The area of the original square is greater.
- D. We don't know because neither the side length nor the area of the original square is known.
- 4. The area of a rectangular playground is 78 square meters. If the length of the playground is 13 meters, what is its width?
- 5. A student said, "We can't find the area of the shaded region because the shape has many different measurements, instead of just a length and a width that we could multiply."



Explain why the student's statement about area is incorrect.