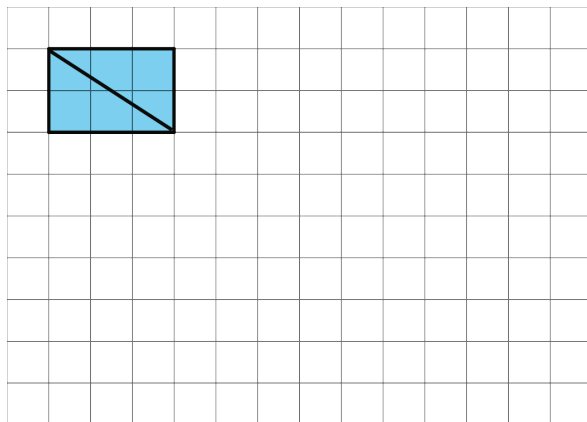


Lesson 2 Practice Problems

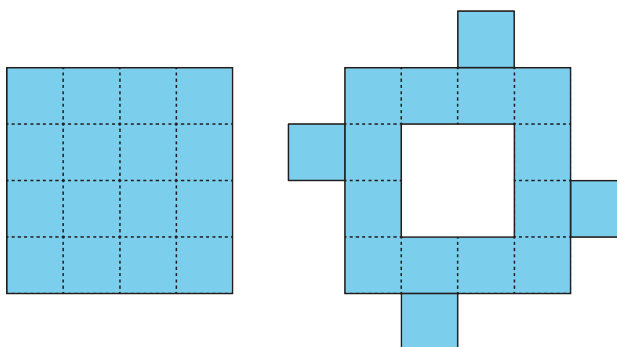
1. The diagonal of a rectangle is shown.



- Decompose the rectangle along the diagonal, and recompose the two pieces to make a *different* shape.
- How does the area of this new shape compare to the area of the original rectangle? Explain how you know.

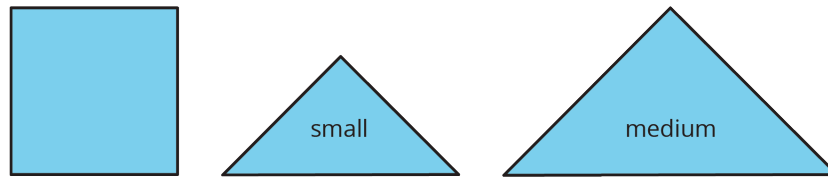
2. Priya decomposed a square into 16 smaller, equal-size squares and then cut out 4 of the small squares and attached them around the outside of original square to make a new figure.

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

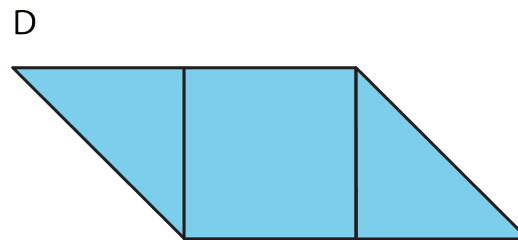
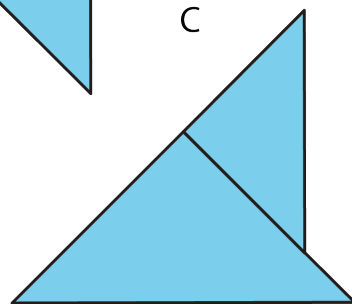
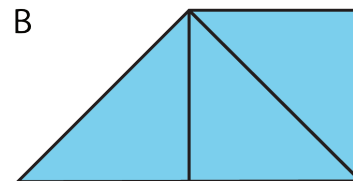
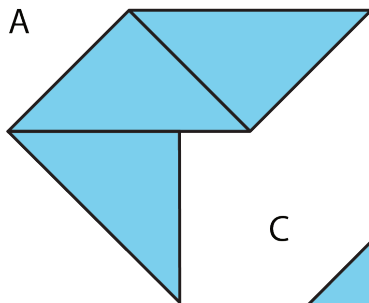


- The area of the new figure is greater.
- The two figures have the same area.
- The area of the original square is greater.
- We don't know because neither the side length nor the area of the original square is known.

3. 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.



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

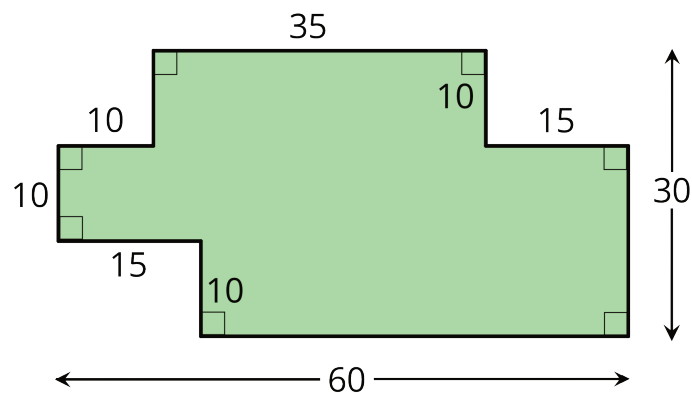


- A. Figure A
- B. Figure B
- C. Figure C
- D. Figure D

4. The area of a rectangular playground is 78 square meters. If the length of the playground is 13 meters, what is its width?

(From Unit 1, Lesson 1.)

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.

(From Unit 1, Lesson 1.)