

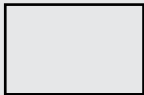
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Congruent and Composite

2.A.1.d 2.D.1.a

Example

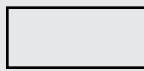
Which rectangle is congruent to the rectangle below?



(A)



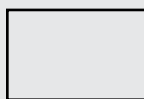
(C)



(B)



(D)



Example

If Tia cuts the following rectangle in half from top to bottom, what two polygons will it make?



(A)

2 rectangles

(B)

2 squares

(C)

rectangle and square

(D)

2 triangles

Thinking It Through

Congruent figures have the same shape and size. Go through the answer choices.

Answer A is a square, not a rectangle.

Answer B is smaller than the rectangle in the question.

Answer C is a rectangle, but it has a different shape than the rectangle in the question.

The rectangle in *answer D* is congruent to the rectangle in the question. They are the same size and shape.

Thinking It Through

You can draw a line through the center from top to bottom to see what polygons can be made.



The two figures made have equal sides and right angles. They are congruent. They are 2 *squares*, *answer B*.

Review

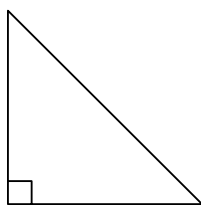
- Congruent figures have the same shape and size.
- Squares, triangles, and rectangles can be made of different shapes. They can also be put together to form new shapes.

Congruent and Composite

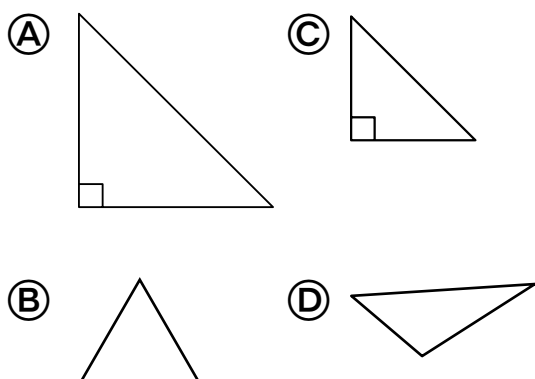
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Directions: Mark the circle with the letter of the best answer.

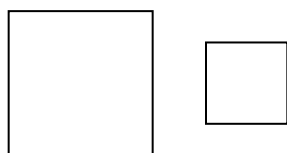
1 Look at the figure below.



Which figure is congruent to the figure above?

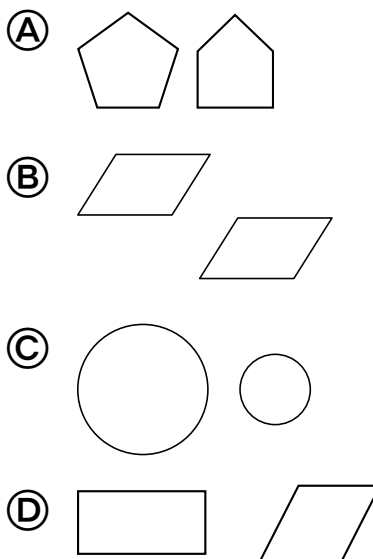


2 Which describes the following two squares?



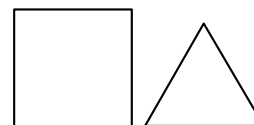
- (F) The squares are congruent.
- (G) The squares have the same size, but different shapes.
- (H) The squares have the same shape, but different sizes.
- (J) The squares have different shapes and sizes.

3 Which pair of figures is congruent?



To be congruent, two figures must have the same shape and size.

4 If Aaron combines the square and triangle below, what other shapes can he make?



- (F) Pentagon
- (G) Rectangle
- (H) Hexagon
- (J) Octagon



How many sides will there be? Remember, one side of the triangle will touch one side of the square.