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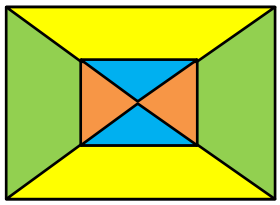
Decomposing or Combining Polygons (Part 2)

1. Look at the figure shown below and answer the following questions.



   a. How many rectangles are in the picture? _____

   b. How many triangles make a rectangle in the picture? _____

2. Divide each of the following figures in two triangles.

3. Combine each of the following pair of figures to form:

   a. Rectangle

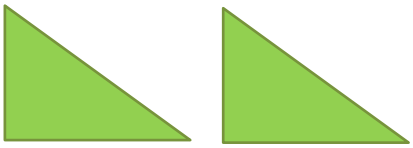


Figure:

   b. Trapezoid

Figure:

4. True or False?
   a. An isosceles triangle can be divided into two congruent triangles. _____
   b. A hexagon can be divided into 7 congruent triangles. _____
   c. A trapezoid can't be formed by combination of two appropriate triangles. _____
   d. A square can be formed by combining two appropriate triangles. _____
   e. A rectangle can only be formed by combining two squares. _____

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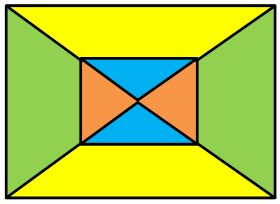
Answer Key

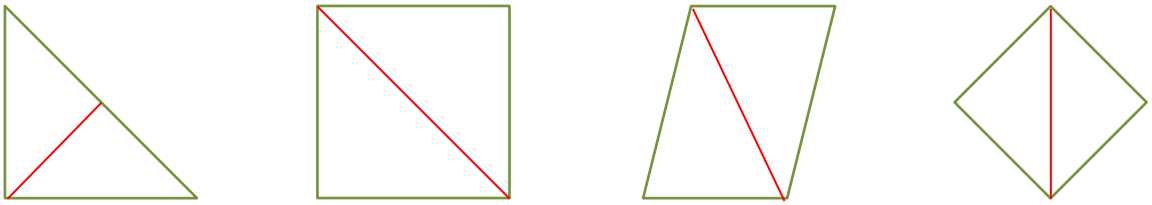
1. Look at the figure shown below and answer the following questions.



a. How many rectangles are in the picture? 2

b. How many triangles make a rectangle in the picture? 2, 3, or 4

2. Divide each of the following figures in two triangles.



3. Combine each of the following pair of figures to form:

a. Rectangle

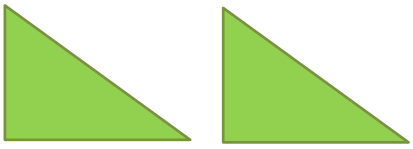
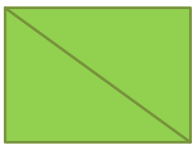


Figure:



b. Trapezoid

Figure:

4. True or False?

a. An isosceles triangle can be divided into two congruent triangles. True
b. A hexagon can be divided into 7 congruent triangles. False
c. A trapezoid can't be formed by combination of two appropriate triangles. False
d. A square can be formed by combining two appropriate triangles. True
e. A rectangle can only be formed by combining two squares. False