

Name _____

Captain Tan's Teasers



Spread the seven tangram pieces on your desk, lettered sides up.
 Use the pieces to complete the following activities.

I. Study triangles A, B, C, E, and F. Then **fill in the blanks**.

1. A, B, C, E, and F each have a square corner. They are all _____ triangles.
2. A, B, C, E, and F each have two equal sides. They are all _____ triangles.
3. A and B are the same size and shape. They are _____ to each other.
4. E and F are also the same size and shape. They are _____ to each other.
5. A and F are the same shape, but they are not the same size. They are _____ to each other.

II. As you complete each item below, **draw a picture** on the back of this sheet to show your answer.

1. Use A and B to make the following: a square, a triangle, a parallelogram.
2. Use E and F to make the following: a square, a triangle, a parallelogram.
3. Use D and two other pieces to cover B.
4. Use G and two other pieces to cover A.
5. Use E, F, and G to make a rectangle; then use them to make a parallelogram.

III. **Write a sentence** to answer each question.

1. How does E compare to D? _____

2. How does C compare to E? _____

3. How does E compare to G? _____

4. How does A compare to C? _____

5. How does B compare to C? _____

CHALLENGE: Combine your tangram pieces with a partner's. Work together to answer the following questions. **Write a sentence or two** to explain how you found each answer. Hint: You'll need to use pieces other than the ones mentioned in the question to find each answer.

1. How does D compare to G? _____

2. How does G compare to B? _____

3. How does D compare to A? _____

4. How does F compare to B? _____

5. Make a large triangle with A and B. Place a second A beside this large triangle. Place C beside that A. Place F beside C. How many F pieces would be needed to cover the largest triangle?
6. Make a large square with two As and two Bs. How many Ds would it take to cover this large square?