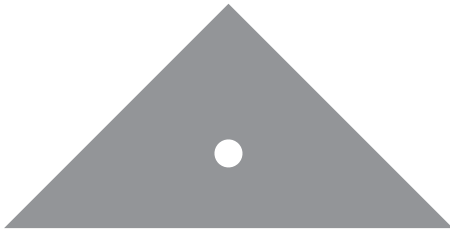


TANGRAM SHAPES

STUDENT HANDOUT

PART 1 - ALL ABOUT THE TANGRAM SHAPES

1. Sort! Sort the Tangram Adventure pieces by their shape, then fill in the information about each one.

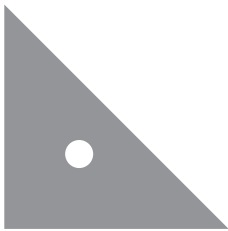


Shape? _____

How many? _____

Size (circle one)? Big Medium Small

Colors? _____



Shape? _____

How many? _____

Size (circle one)? Big Medium Small

Colors? _____

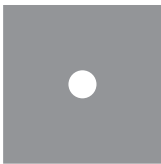


Shape? _____

How many? _____

Size (circle one)? Big Medium Small

Colors? _____



Shape? _____

How many? _____

Size (circle one)? Big Medium Small

Colors? _____



Shape? _____

How many? _____

Size (circle one)? Big Medium Small

Colors? _____

2. Compare! Look at the yellow triangle and the purple triangle. What is the same about them? What is different?

What is the same?

What is different?

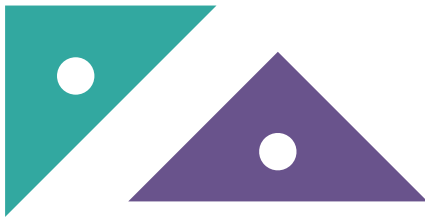
3. Guess! How many small triangles do you think would cover the big triangle?

PART 2: SHAPE COMPARISONS

4. Try! Using only the two small triangles try to make these other shapes:

Use these pieces:

Make the medium triangle (draw it):



Make a square (draw it):

Make a parallelogram (draw it):

5. Compare! Which do you think is bigger (circle one)?

Two Small Triangles • One Blue Square • They Are The Same



How do you know?

6. Compare! Which do you think is bigger (circle one)?

One Medium Triangle • Two Small Triangles • They Are The Same



How do you know?

7. Compare! Which do you think is bigger (circle one)?

Two Small Triangles • Green Parallelogram • They Are The Same



How do you know?

8. Compare! Which do you think is bigger (circle one)?

One Blue Square • One Medium Triangle • They Are The Same



How do you know?

9. Compare! Which do you think is bigger (circle one)?

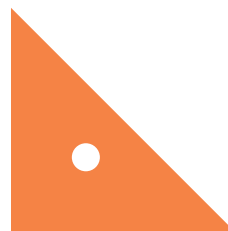
Green Parallelogram • Blue Square • They Are The Same



How do you know?

10. Compare! Which do you think is bigger (circle one)?

Green Parallelogram • Orange Triangle • They Are The Same

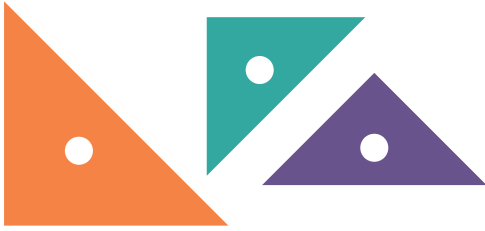


How do you know?

PART 3 - COMPARING & PROVING

11. Try! Using the two small triangles and the medium orange triangle, try to make these other shapes:

Use these pieces:

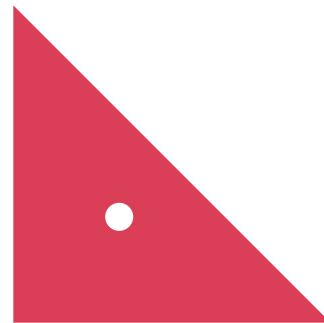


Make a big triangle (draw it):

Make a square (draw it):

Make a parallelogram (draw it):

12. Prove! Show that the red triangle is the same size as the green parallelogram and the two small triangles put together by drawing them on top of it.



13. Prove! How can you prove the yellow triangle is the same size as the green parallelogram and the blue square put together? Describe how you can do it.



14. Now sort the Tangram Adventure pieces again, this time by their sizes.

	How Many	Which Ones?
Small		
Medium		
Big		

15. Check! Based on what you have learned, how many small triangles would it take to cover one of the big triangles? Does this match your guess from part 2?

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