Transformations – Symmetry

Hw Section 19.2 Activity 2

Flags are often great example of symmetry. Search in the internet to find the flags of the world. Find flags that meet the criteria provided below. Sketch and color the flag and provide the name of the county. For example, the Canadian Flag has 1 line of symmetry. You are not allowed use this Canada, Trinidad & Tobago, Thailand, Ukraine, or Qatar for your answers because I use them as examples. Also you cannot use a flag more than once on this activity.

Possible URL: <u>http://www.sciencekids.co.nz/pictures/flags.html</u>

1. LINE SYMMETRY

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0 LINES OF SYMMETRY	1 LINE OF SYMMETRY	2 LINES OF SYMMETRY	2 LINES OF SYMMETRY
Country	Country	Country	Country
2. ROTATION SYMMETR	Y		
ORDER 2	ORDER 2	2 LINES & ORDER 2	2 LINES & ORDER 2
Country		Country	Country
	d rotation symmetries of the pretrical and you can NOT use t	rovided flags. hese flags for questions #1 and	#2)
			<u>"-)</u>
Trinidad & Tobago	Thailand	Ukraine	Qatar
Trinidad & Tobago	Thailand	Ukraine	Qatar
Trinidad & Tobago	Thailand Lines of Symmetry	Ukraine Ukraine	Qatar







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Name

4. Most flags are rectangular in shape. Can you find countries that have:a) a square flag

6. What is the study of flags called?

b) a non-rectangular/square flag

5. What does the all white flag mean?

7. What is the name of the flag that is black and has a skull and cross bones on it?

8. Which country once had a national flag that was a solid green color and nothing else? _____

9. a) **Design your own flag.** The flag must have symmetry – you can choose how much symmetry it has and whether it is rotational or reflectional symmetry. Color and Detail the Flag!! Use symbols, colors and shapes that somehow represent you and your country.

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b) Explain why you designed it the way you did.

c) Described the symmetries found in your flag.



Online flag designer kit (http://www.flag-designer.appspot.com/)