LESSON 8-10

Puzzles, Twisters & Teasers

Transformer!

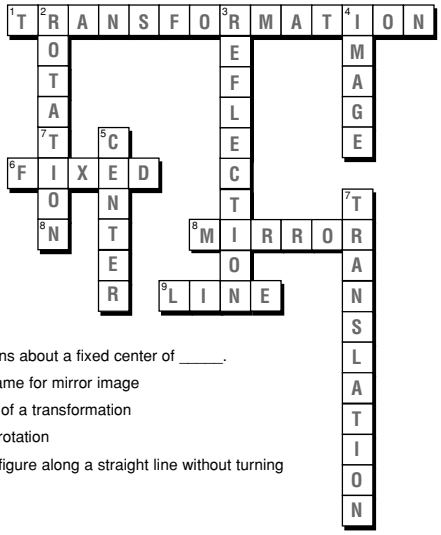
Across

1. A way to produce a new image from a given one

6. Not moving

8. A reflection is a _____ image

9. _____ of reflection



Down

2. A figure turns about a fixed center of _____.

3. Another name for mirror image

4. The result of a transformation

5. _____ of rotation

7. To slide a figure along a straight line without turning

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LESSON 8-11

Practice A

Symmetry

Draw all the lines of symmetry in each figure.

1.



2.



3.



Tell how many lines of symmetry each flag has.

4. Scotland



2

5. Thailand



1

6. Chile



0

Using the given figure, draw each position.

7.



Original | A 90° turn | Another 90° turn | Another 90° turn

8. How many times does the figure above show rotational symmetry within one full rotation?

2 times

How many times will each figure show rotational symmetry within one full rotation?

9.



4

10.



2

11.



4

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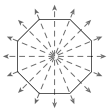
LESSON 8-11

Practice B

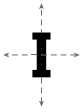
Symmetry

Decide whether each figure has line symmetry. If it does, draw all the lines of symmetry.

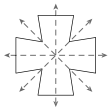
1.



2.



3.



Find and draw all the lines of symmetry in each flag.

4. Iceland

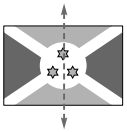


5. Nauru



none

6. Burundi



Tell how many times each figure will show rotational symmetry within one full rotation.

7.



2

8.



5

9.



3

10.



4

11.



5

12.



6

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LESSON 8-11

Practice C

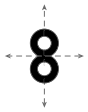
Symmetry

Decide whether each figure has line symmetry. If it does, draw all the lines of symmetry.

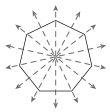
1.



2.

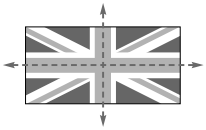


3.

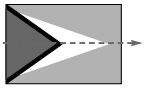


Find and draw all the lines of symmetry in each flag.

4. Great Britain



5. Guyana



6. Trinidad and Tobago



none

Tell how many times each figure will show rotational symmetry within one full rotation.

7.



6

8.



8

9.



17

Describe the smallest angle of rotational symmetry for each figure.

10.



90°

11.



90°

12 .



180°

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