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1-4. Answers may vary. Samples are given.

- **1.** yes; translation; two \perp rectangles
- 2. yes; translation; two s and a rhombus with a flower in it
- 3. yes; translation; four rectangles in a square shape
- **4.** yes; translation; from upper left corner, 5 rectangles down and full width
- **5.** yes

6. yes

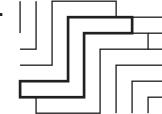
7. no

8. no

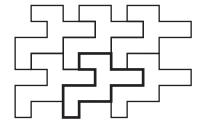
9. no

- **10.** no
- 11. rotational, reflectional, glide reflectional, and translational
- **12.** rotational, point, reflectional, glide reflectional, and translational
- 13. rotational, reflectional, glide reflectional, and translational
- 14. rotational and reflectional

15.

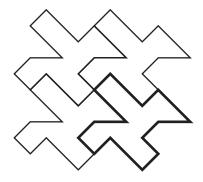


16.



17.

Geometry



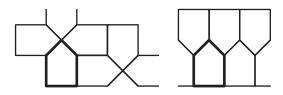
Chapter 9

- **18.** C
- 19-21. Answers may vary. Samples are given.

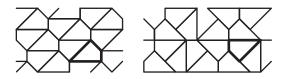
19.



20.

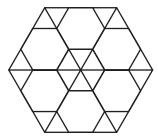


21.

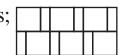


- **22.** A regular polygon with more than 6 sides must have ∠ measures greater than 120, and at least 3 polygons must meet at each vertex. The sum of 3 or more ½ with measures greater than 120 > 360. So the 3 regular polygons are 3-, 4-, and 6-sided, since their int. ∠ measures divide 360.
- **23.** no

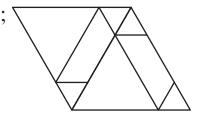
24. yes;



25. yes;

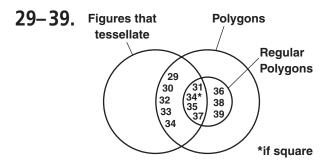


26. yes;

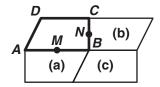


- 27. reflectional, glide reflectional, rotational, and translational
- **28.** rotational, point, reflectional, glide reflectional, and translational

Answers for Lesson 9-7, pp. 518-520 Exercises (cont.)



40. a-c. Drawings may vary. Sample:



- **41.** Answers may vary. Sample: Draw $\triangle ABC$. Locate M, the mdpt. of \overline{AB} , and N, the mdpt. of \overline{BC} . Draw the images of $\triangle ABC$ under 180° rotations about M and N. Draw the image of $\triangle ABC$ under the translation that maps A to C. 2^{nd} way: Draw $\triangle ABC$. Draw the reflection image of pt. C over \overline{AB} , C'. Now use the steps from Ex. 38 for quad. ACBC'.

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Geometry

Chapter 9