

Symmetric Polygons

Name the polygon that could be defined by the symmetry properties listed below.
(Make sketches on paper, possibly using the template.)

1. A triangle with at least one line of symmetry.
2. A triangle with at least two lines of symmetry.
3. A quadrilateral with 180° rotational symmetry.
4. A quadrilateral with at least one line of symmetry that passes through vertices.
5. A quadrilateral with at least one line of symmetry that does not pass through vertices.
6. A quadrilateral with two lines of symmetry that pass through vertices.
7. A quadrilateral with two lines of symmetry that do not pass through vertices.
8. A quadrilateral with four lines of symmetry.
9. An n -gon with n lines of symmetry. Two cases:
 - Each line of symmetry passes through either two vertices or through zero vertices.
 - Each line of symmetry passes through exactly one vertex.

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