

## PRACTICE

For Numbers 1–3, find the sum of the angle measures of the regular polygon given.

1 undecagon

2 14-sided figure

3 22-sided figure

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For Numbers 4–6, find the measure of one angle of the regular polygon given to the nearest whole number.

4 heptagon

5 nonagon

6 20-sided figure

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7 Laurel drew a regular polygon in art class. The sum of the interior angles of the polygon was  $900^\circ$ . What type of polygon did Laurel draw?

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8 Mrs. Guzman cut regular polygons in which each interior angle has a measure of  $135^\circ$  for a quilt. What type of polygon is she cutting?

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9 Joe multiplied 180 by 9 and then divided by 7 to find the measure of an angle in a regular nonagon. Explain what Joe did wrong.

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10 The framework of the Ferris wheel in Sea Isle, New Jersey, is made of several polygons, including some regular triangles and regular quadrilaterals. How can you quickly find the difference between the sum of angles of a regular triangle and of a regular quadrilateral?

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