Lesson 6.1 Practice: Angles of Polygons

School Launch · Geometry · Unit 6: Quadrilaterals and Polygons · Worksheet A

Calculator allowed

Name _____ Date _____ Score _____ / 10

Show your work under each problem, one step per line, and check your answer. Word problems: name the unknown, write the equation, solve, and answer in a sentence with units.

1. Find the sum of the interior angles of a 19-gon and each interior angle if it is regular (nearest tenth). EASY

2. Find the sum of the interior angles of a 12-gon and each interior angle if it is regular (nearest tenth). EASY

3. Find the sum of the interior angles of a 15-gon and each interior angle if it is regular (nearest tenth). EASY

4. Each exterior angle of a regular polygon measures $45°$. How many sides does it have, and what is each interior angle? MEDIUM

5. Each exterior angle of a regular polygon measures $1°$. How many sides does it have, and what is each interior angle? MEDIUM

6. Each exterior angle of a regular polygon measures $60°$. How many sides does it have, and what is each interior angle? MEDIUM

7. Each exterior angle of a regular polygon measures $9°$. How many sides does it have, and what is each interior angle? MEDIUM

8. Each exterior angle of a regular polygon measures $8°$. How many sides does it have, and what is each interior angle? HARD

9. Each exterior angle of a regular polygon measures $2°$. How many sides does it have, and what is each interior angle? HARD

10. Each exterior angle of a regular polygon measures $5°$. How many sides does it have, and what is each interior angle? HARD