

Hanes Magnet Math Club Worksheet 02 Fall 2017

Warm-up problem: mental math

$$137 \times 57 =$$

Triangles, Quadrilaterals, and other Polygons

1. What is the sum of three interior angles of a triangle?
2. What is the sum of the exterior angles of a triangle?
3. What is the sum of the four interior angles of a quadrilateral if it is convex?
4. What is the sum of the four interior angles of a quadrilateral if it is not convex?
5. What is the sum of the interior angles of a convex pentagon? What if it is not convex?
6. What is the sum of the interior angles of a convex n-gon? What if it is not convex?
7. (Challenge) What is the sum of the three interior angles of a triangle you draw on a globe, say, on Earth?