

NAME	DATE	SCORE
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- 1** Two angles of a triangle are 45° and 87° . What is the measure, in degrees, of the third angle?

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- 2 Two angles are complementary. One angle measures $(4x + 22)^\circ$, and the other angle measures 48° . What is the value of x ?

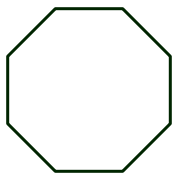
- 3** Two angles measure 57° and 33° . Are the two angles complementary, supplementary or neither?
- ☐ Complementary ☐ Supplementary
- ☐ Neither

- 4 One side of a triangle is extended to make an exterior angle of 101° . The two interior angles that are not next to the exterior angle measure 32° and x° . What is the value of x ?

- 5** Maya wants to draw a triangle with sides of 5 cm, 8 cm and 15 cm. How many different triangles can Maya draw with these measurements?
- ☐ Exactly one triangle
- ☐ More than one triangle ☐ No triangle

- 6** Two straight lines cross at a point, making four angles. One of the angles measures 115° . In order around the point from that angle, what are the measures of the other three angles?
- ☐ $65^\circ, 65^\circ$ and 65° ☐ $65^\circ, 115^\circ$ and 65°
☐ $115^\circ, 115^\circ$ and 115° ☐ $115^\circ, 65^\circ$ and 115°

- 7** What is the sum, in degrees, of the interior angles of the polygon below?



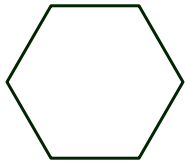
- 8 Which three lengths could be the side lengths of a triangle?
- ☐ 6 meters, 4 meters and 12 meters
 - ☐ 10 meters, 2 meters and 7 meters
 - ☐ 9 meters, 15 meters and 8 meters
 - ☐ 9 meters, 7 meters and 2 meters

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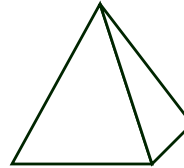
NAME	DATE	SCORE / 3
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Answer each question. Show your work.

- 9** The shape below is a regular hexagon. What is the measure, in degrees, of one exterior angle of the shape?

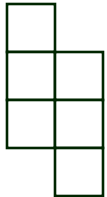


- 10** The square pyramid below is cut by a plane parallel to its base. What is the shape of the cross section?



- ☐ Triangle
 ☐ Square
 ☐ Trapezoid

- 11** What is the order of rotational symmetry of the shape below, if the shape has any?



- ☐ Order 4
 ☐ Order 2
☐ No rotational symmetry

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1	48	2	5	3	Complementary
4	69	5	No triangle	6	65°, 115° and 65°
7	1080	8	9 meters, 15 meters and 8 meters	9	60
10	Square	11	Order 2		