ML8 Chapter 12 Get Ready Answers

BLM 12–2 Chapter 12 Get Ready

1. a) No. Some of their angles and one of their sides are not equal. **b)** Yes. There are corresponding angles and sides. **c)** No. The circles are different sizes. **d)** Yes. There are corresponding angles and sides.

2. b) In rectangles ABCD and GHIJ: all angles are equal because they are all 90°;
$\overline{AB} = \overline{CD} = \overline{IJ} = \overline{GH}$, and $\overline{DA} = \overline{CB} = \overline{JG} = \overline{IH}$.

d) In parallelograms MNOP and STUV:
$\angle N = \angle O = \angle S = \angle V$, $\angle M = \angle P = \angle T = \angle U$;
$\overline{MO} = \overline{NP} = \overline{ST} = \overline{UV}$, $\overline{MN} = \overline{OP} = \overline{SU} = \overline{TV}$.

3. a) This is a regular polygon because all sides and all angles are equal.

b) This is a regular polygon because all sides and all angles are equal.

c) This is an irregular polygon because some of the sides and some of the angles differ.

d) This is an irregular polygon because some of the sides and some of the angles differ.

4. Answers may vary. Look for the following:

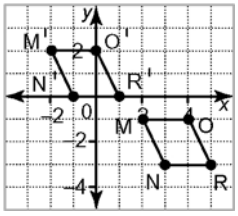
• Regular polygons have equal sides and angles, such as equilateral triangles, squares, and some hexagons.

• Irregular polygons have at least some sides and angles that are not equal, such as isosceles and scalene triangles.

5. a) ΔTHE has coordinates (−4, −2), (−2, −2), and (−2, −4). ΔT′H′E′ has coordinates (2, −2), (0, −2) and (0, 0).

b) The direction of rotation is clockwise or counter-clockwise. The angle of rotation is 180°.

6. a)



b) The coordinates of M′O′R′N′ are (−2, 2), (0, 2), (1, 0), and (−1, 0).

c), d)