

Lesson 15 Practice Problems

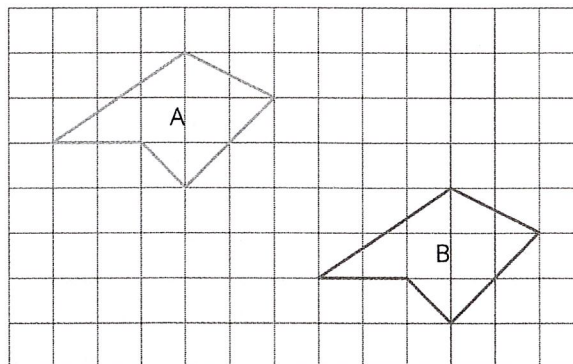
1. In triangle ABC , the measure of angle A is 40° .
 - a. Give possible measures for angles B and C if triangle ABC is isosceles.
 - b. Give possible measures for angles B and C if triangle ABC is right.

2. For each set of angles, decide if there is a triangle whose angles have these measures in degrees:
 - a. 60, 60, 60
 - b. 90, 90, 45
 - c. 30, 40, 50
 - d. 90, 45, 45
 - e. 120, 30, 30

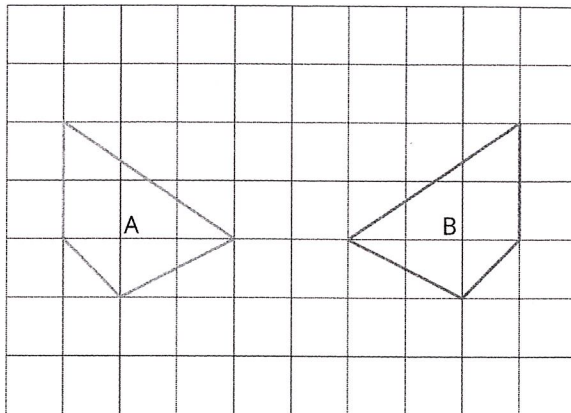
If you get stuck, consider making a line segment. Then use a protractor to measure angles with the first two angle measures.

3. Angle A in triangle ABC is obtuse. Can angle B or angle C be obtuse? Explain your reasoning.

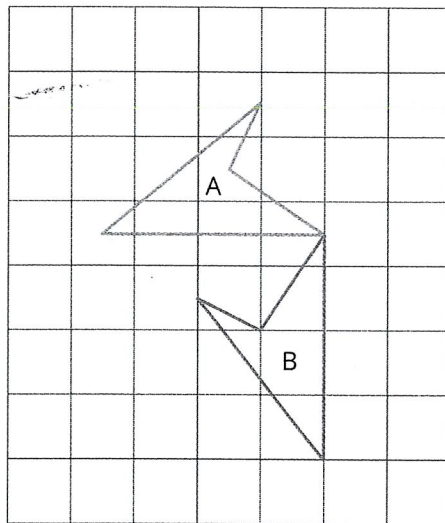
4. For each pair of polygons, describe the transformation that could be applied to Polygon A to get Polygon B.
 - a.



b.



c.



5. On the grid, draw a scaled copy of quadrilateral $ABCD$ using a scale factor of $\frac{1}{2}$.

