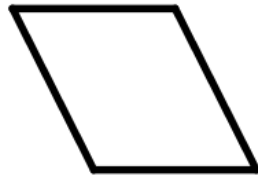


Introduction to Polygons – Part 2
Congruence and Similarity of Polygons – Part 1
Independent Practice

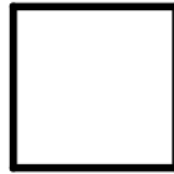
1. Consider the polygons below.



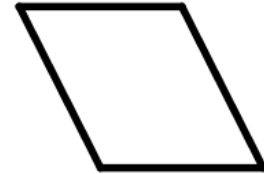
Polygon 1



Polygon 2



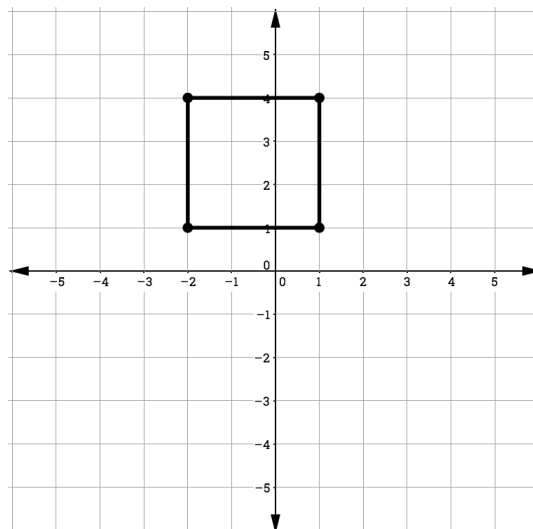
Polygon 3



Polygon 4

Determine which of the following listed pairs are congruent. Select all that apply.

- Polygon 1 and Polygon 2
 - Polygon 1 and Polygon 3
 - Polygon 1 and Polygon 4
 - Corresponding sides of Polygon 1 and sides of Polygon 2
 - Corresponding sides of Polygon 1 and sides of Polygon 4
 - Corresponding angles of Polygon 1 and Polygon 3
 - Corresponding angles of Polygon 1 and Polygon 4
2. Which of the following sets of coordinates represents a square that is congruent to the one below?



- (A) $S(1, 1), T(1, 5), O(-2, 1), P(-2, 5)$
- (B) $E(6, -2), F(6, 3), G(1, 3), H(1, -2)$
- (C) $F(2, -1), L(5, -1), A(2, -4), T(5, -4)$
- (D) $G(1, 1), E(2, 4), M(5, 4), S(5, 1)$

3. Compare and contrast similar and congruent figures.
4. A rectangle has side lengths of 10 and 14. A similar rectangle might have side lengths of
- (A) 11 and 14
 - (B) 15 and 21
 - (C) 9 and 18
 - (D) 16 and 20
5. Which of the following would *not* help justify that two shapes are similar?
- (A) They are the same shape.
 - (B) They have the same number of vertices.
 - (C) One set of corresponding sides is congruent but another is not.
 - (D) All sets of corresponding sides are in proportion to each other.
6. Are the rectangles below similar? Justify your answer.

