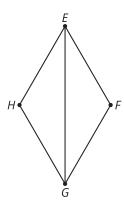


Lesson 15 Practice Problems

- 1. Select all quadrilaterals that have 180 degree rotational symmetry.
 - A. trapezoid
 - B. isosceles trapezoid
 - C. parallelogram
 - D. rhombus
 - E. rectangle
 - F. square

(From Unit 2, Lesson 14.)

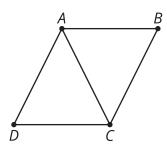
2. Lin wrote a proof to show that diagonal EG is a line of symmetry for rhombus EFGH. Fill in the blanks to complete her proof.



(From Unit 2, Lesson 14.)



3. In quadrilateral ABCD, AD is congruent to BC, and AD is parallel to BC. Andre has written a proof to show that ABCD is a parallelogram. Fill in the blanks to complete the proof.



- 4. Select the statement that **must** be true.
 - A. Parallelograms have at least one right angle.
 - B. If a quadrilateral has opposite sides that are both congruent and parallel, then it is a parallelogram.
 - C. Parallelograms have congruent diagonals.
 - D. The height of a parallelogram is greater than the lengths of the sides.

(From Unit 2, Lesson 13.)



5. *EFGH* is a parallelogram and angle *HEF* is a right angle.Select all statements that must be true.

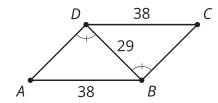
D

- A. EFGH is a rectangle.
- B. Triangle HEF is congruent to triangle GFH.
- C. Triangle HEF is congruent to triangle FGH.
- D. ED is congruent to HD, DG, and DF.
- E. Triangle EDH is congruent to triangle HDG.

(From Unit 2, Lesson 12.)

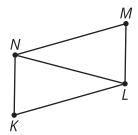
6. Figure ABCD is a parallelogram. Is triangle ADB congruent to triangle CBD? Show or explain your reasoning.

 $\overline{AB} \cong \overline{CD}, \angle ADB \cong \angle CBD$



(From Unit 2, Lesson 11.)

7. Figure KLMN is a parallelogram. Prove that triangle KNL is congruent to triangle MLN.



(From Unit 2, Lesson 7.)