



4-1 Solve It!



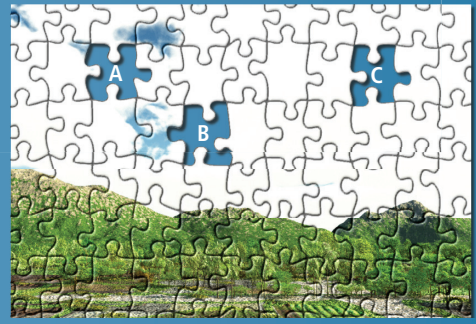
They say you can't fit a square peg into a round hole. I wonder why that is.






Getting Ready!

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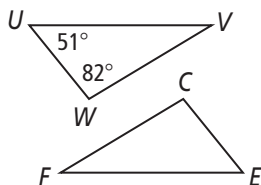
You are working on a puzzle. You've almost finished, except for a few pieces of the sky. Place the remaining pieces in the puzzle. How did you figure out where to place the pieces?



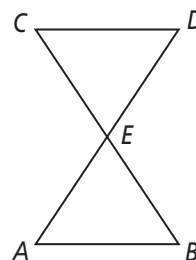
 1
 2
 3

4-1 Lesson Quiz

1. If $CDEF \cong KLMN$, what are the congruent corresponding parts?
2. If $\triangle UVW \cong \triangle EFC$, what is the measure of $\angle FEC$?



3. **Do you UNDERSTAND?** Suppose it is given that $\angle C \cong \angle B$, $\angle D \cong \angle A$, $\overline{AE} \cong \overline{BE}$, and $\overline{CE} \cong \overline{DE}$. Does that prove that the triangles are congruent? Justify your answer.



Answers

Solve It!

Piece 1 fits in A, piece 2 in B, and piece 3 in C; explanations may vary. Sample: You can match up the parts that stick out with the parts that “go in” based on their size and location.

Lesson Quiz

1. Sides: $\overline{CD} \cong \overline{KL}$, $\overline{DE} \cong \overline{LM}$, $\overline{EF} \cong \overline{MN}$, $\overline{CF} \cong \overline{KN}$;
Angles: $\angle C \cong \angle K$, $\angle D \cong \angle L$, $\angle E \cong \angle M$, $\angle F \cong \angle N$

2. 51

3. No, the two triangles have congruent angles but not necessarily congruent sides.