2.1 Exercises



46 Chapter 2 Transformations

11. ERROR ANALYSIS Describe and correct the error in telling whether the two figures are congruent.



Both figures have four sides, and the corresponding side lengths are equal. So, they are congruent.

Which angle of *JKLMN* corresponds to $\angle D$?

Side AB is congruent to side AE. What is the

a. What is the length of side *LM*?

d. What is the perimeter of *ABCDE*?

length of side *AB*?

B 12. HOUSES The fronts of the houses are identical.



13. REASONING Here are two ways to draw *one* line to divide a rectangle into two congruent figures. Draw three other ways.



14. CRITICAL THINKING Are the areas of two congruent figures equal? Explain. Draw a diagram to support your answer.

b.

c.

- **15.** The trapezoids are congruent. Determine whether the statement is *true* or *false*. Explain your reasoning.
 - **a.** Side *AB* is congruent to side *YZ*.
 - **b.** $\angle A$ is congruent to $\angle X$.
 - **c.** $\angle A$ corresponds to $\angle X$.
 - d. The sum of the angle measures of *ABCD* is 360°.



A	Fair Game i	Review What you	learned in previous grade	es & lessons
Plot and label the ordered pair in a coordinate plane. (Skills Review Handbook)				
16.	<i>A</i> (5, 3)	17. <i>B</i> (4, −1)	18. <i>C</i> (-2, 6)	19. <i>D</i> (-4, -2)
20.		-	and 5 dimes in your poo of coins. <i>(Skills Review F</i> C 5 to 7	