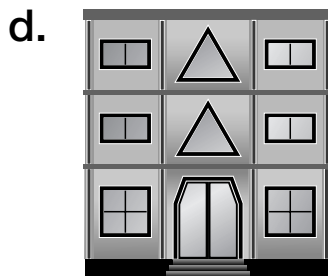
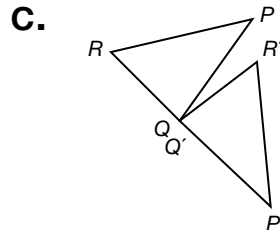
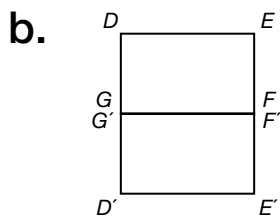


Warm Up 67

1. congruent
2. $AP = A'P$
3. A

Lesson Practice 67

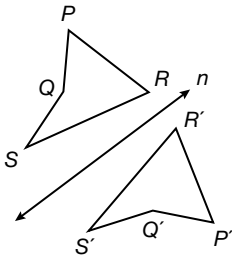
a. translation



Practice 67

1. $4,836.3 \text{ cm}^2$
2. 8.5 in.
3. $x = 10$
4. 5
5. perimeter = 240 ft;
area = 4344 ft^2
6. translation
7. 18 feet/second
8. no
9. Sample: $2x^2 - 8 = 0$
10. $DE = 1.8$
11. $44^\circ, 68^\circ$
12. 736 ft^2
13. 5 inches
14. A
15. Geometric probability does not apply to a because the player does not have an equally likely chance of hitting any area since the player is aiming for a specific location. Geometric probability does apply to b , because meteors are equally likely to occur in any given portion of the sky as any other.
16. $\frac{3}{4}bh$
17. $38,936 \text{ ft}^2$
18. B
19. $y = x - 1$
20. right triangle; 24
21. He has incorrectly used $1:2:\sqrt{3}$ the ratio for sides of a 30° - 60° - 90° triangle $k = 4$
22. could be reflection or rotation (by 180°); could not be translation

23.

28. $\langle 4, 2 \rangle$ 29. $P = 96$ ft; $A = 443.4$ ft²

30. yes; yes

24. Given: $\triangle ABC$ where
 $\angle A \neq \angle B \neq \angle C$
 Prove: $AB \neq BC \neq CA$.
 Proof: Assume that
 $AB = BC$. Since we
 know that if two sides of
 a triangle are congruent
 then the two angles
 opposite those sides
 are congruent, then
 that means that
 $\angle A \cong \angle C$. However,
 that contradicts our
 original given statement.
 Therefore, the
 assumption is incorrect.
 Thus, if a triangle has no
 two angles congruent
 then it has no two sides
 congruent.

25. $180^\circ - 2(x + 2)^\circ$ 26. 251.2 cm²

27. C