Lesson 11.6 Practice: Areas of Similar Figures and Composite Regions

School Launch · Geometry · Unit 11: Area and Perimeter · Worksheet A

Calculator allowed

Name _____ Date _____ Score _____ / 10

Show your work under each problem, one step per line, and check your answer. Word problems: name the unknown, write the equation, solve, and answer in a sentence with units.

1. Two similar figures have corresponding sides 5 and 7. The first has area 650. Find the area of the second. EASY

2. Two similar figures have corresponding sides 2 and 8. The first has area 44. Find the area of the second. EASY

3. Two similar figures have corresponding sides 6 and 8. The first has area 684. Find the area of the second. EASY

4. Two similar figures have corresponding sides 3 and 6. The first has area 207. Find the area of the second.

MEDIUM

5. Two similar figures have corresponding sides 7 and 5. The first has area 1323. Find the area of the second.

MEDIUM

6. Two similar figures have corresponding sides 4 and 8. The first has area 224. Find the area of the second.

MEDIUM

7. Two similar figures have corresponding sides 7 and 6. The first has area 833. Find the area of the second.

MEDIUM

8. A circular garden of radius 15 ft has a 2 ft wide circular path around it. Find the area of the path (exact).

HARD

9. A circular garden of radius 10 ft has a 5 ft wide circular path around it. Find the area of the path (exact).

HARD

10. A circular garden of radius 14 ft has a 3 ft wide circular path around it. Find the area of the path (exact).

HARD