

10.7 Area and Perimeter of Similar Polygons

Answers

1. $\frac{9}{25}$
2. $\frac{1}{16}$
3. $\frac{49}{4}$
4. $\frac{36}{121}$
5. $\frac{1}{6}$
6. $\frac{2}{9}$
7. $\frac{7}{3}$
8. $\frac{5}{12}$
9. $\frac{1}{4}$
10. $\frac{1}{2}$
11. $5 u^2$
12. $24 u$
13. $12, 8$
14. $\frac{2}{3}$
15. $\frac{2}{3}$
16. $4, 9$
17. $\frac{4}{9}$
18. $3\sqrt{2}, 2\sqrt{2}, \frac{2}{3}$, the same as the scale factor.
19. $96 u^2$
20. 198ft^2

21. 54 in
22. 32 units
23. $\frac{4}{9}$
24. $\frac{2}{3}$
25. Diagonals are 12 and 16. The length of the sides are $12\sqrt{2}$ and $16\sqrt{2}$.
26. Because the diagonals of these rhombi are congruent, the rhombi are actually squares.