Name _____ Date _____

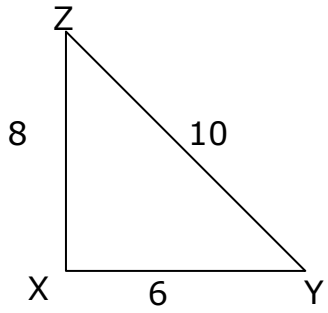
Similar Polygons: Ratio of Perimeters & Areas - Independent Practice Worksheet

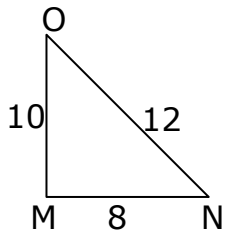
Complete all the problems.

1. Two Δ are similar. The sides of the first Δ are 2, 4, and 6. The largest side of the second Δ is 24. Find the perimeter of the second Δ.

2. The areas of two similar polygons are in the ratio 64:81. Find the ratio of the corresponding sides.

3. Finding the areas of similar right triangles whose scale factor is 3: 5.



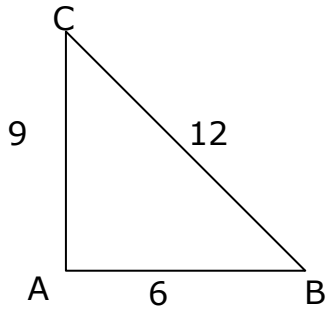


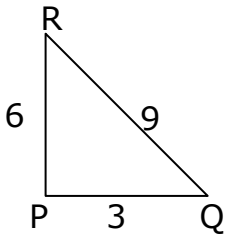
4. The perimeters of two similar triangles is in the ratio 2: 4. The sum of their areas is 100 cm^2. Find the area of each triangle.

5. Two Δ are similar. The sides of the first Δ are 4, 5, and 6. The largest side of the second Δ is 24. Find the perimeter of the second Δ.

6. The areas of two similar polygons are in the ratio 36:16. Find the ratio of the corresponding sides.

7. Finding the areas of similar right triangles whose scale factor is 3: 1.





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8. Two Δ are similar. The sides of the first Δ are 5, 10, and 15. The largest side of the second Δ is 20. Find the perimeter of the second Δ.

9. The areas of two similar polygons are in the ratio 36:49. Find the ratio of the corresponding sides.

10. The areas of two similar polygons are in the ratio 121:100. Find the ratio of the corresponding sides.