

2022 The Secret of How To Find Ratios of Area and Perimeter of Similar Polygons

Lesson 066 | Geometry | Similarity and proportions

<https://www.youtube.com/watch?v=NURI9b5tjg>

Original practice aligned to the saved video title.

Name: _____ Date: _____ Show your reasoning.

01

Two similar polygons have corresponding lengths 5 and 30. The smaller has perimeter 33 and area 39. Find the larger perimeter and area.

02

Two similar polygons have corresponding lengths 8 and 48. The smaller has perimeter 65 and area 45. Find the larger perimeter and area.

03

Two similar polygons have corresponding lengths 14 and 70. The smaller has perimeter 63 and area 21. Find the larger perimeter and area.

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Name: _____ Date: _____ Show your reasoning.

04

Two similar polygons have corresponding lengths 12 and 84. The smaller has perimeter 20 and area 12. Find the larger perimeter and area.

05

Two similar polygons have corresponding lengths 5 and 35. The smaller has perimeter 80 and area 112. Find the larger perimeter and area.

06

Two similar polygons have corresponding lengths 9 and 36. The smaller has perimeter 14 and area 16. Find the larger perimeter and area.

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01

Two similar polygons have corresponding lengths 5 and 30. The smaller has perimeter 33 and area 39. Find the larger perimeter and area.

Length scale factor 6. Perimeter scales by 6: 198. Area scales by 6^2 : 1404.

02

Two similar polygons have corresponding lengths 8 and 48. The smaller has perimeter 65 and area 45. Find the larger perimeter and area.

Length scale factor 6. Perimeter scales by 6: 390. Area scales by 6^2 : 1620.

03

Two similar polygons have corresponding lengths 14 and 70. The smaller has perimeter 63 and area 21. Find the larger perimeter and area.

Length scale factor 5. Perimeter scales by 5: 315. Area scales by 5^2 : 525.

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04

Two similar polygons have corresponding lengths 12 and 84. The smaller has perimeter 20 and area 12. Find the larger perimeter and area.

Length scale factor 7. Perimeter scales by 7: 140. Area scales by 7^2 : 588.

05

Two similar polygons have corresponding lengths 5 and 35. The smaller has perimeter 80 and area 112. Find the larger perimeter and area.

Length scale factor 7. Perimeter scales by 7: 560. Area scales by 7^2 : 5488.

06

Two similar polygons have corresponding lengths 9 and 36. The smaller has perimeter 14 and area 16. Find the larger perimeter and area.

Length scale factor 4. Perimeter scales by 4: 56. Area scales by 4^2 : 256.