

Big Idea Geometry 8 2 Similar Triangle

Lesson 046 | Geometry | Similarity and proportions

<https://www.youtube.com/watch?v=uzZIQz9o-NA>

Original practice aligned to the saved video title.

Name: _____ Date: _____ Show your reasoning.

01

Two similar polygons have corresponding lengths 5 and 20. The smaller has perimeter 18 and area 24. Find the larger perimeter and area.

02

Two similar polygons have corresponding lengths 13 and 91. The smaller has perimeter 10 and area 6. Find the larger perimeter and area.

03

Two similar polygons have corresponding lengths 9 and 36. The smaller has perimeter 8 and area 20. Find the larger perimeter and area.

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04

Two similar polygons have corresponding lengths 2 and 8. The smaller has perimeter 15 and area 70. Find the larger perimeter and area.

05

Two similar polygons have corresponding lengths 4 and 24. The smaller has perimeter 22 and area 16. Find the larger perimeter and area.

06

Two similar polygons have corresponding lengths 5 and 10. The smaller has perimeter 36 and area 12. Find the larger perimeter and area.

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- 01** Two similar polygons have corresponding lengths 5 and 20. The smaller has perimeter 18 and area 24. Find the larger perimeter and area.

Length scale factor 4. Perimeter scales by 4: 72. Area scales by 4^2 : 384.

- 02** Two similar polygons have corresponding lengths 13 and 91. The smaller has perimeter 10 and area 6. Find the larger perimeter and area.

Length scale factor 7. Perimeter scales by 7: 70. Area scales by 7^2 : 294.

- 03** Two similar polygons have corresponding lengths 9 and 36. The smaller has perimeter 8 and area 20. Find the larger perimeter and area.

Length scale factor 4. Perimeter scales by 4: 32. Area scales by 4^2 : 320.

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04

Two similar polygons have corresponding lengths 2 and 8. The smaller has perimeter 15 and area 70. Find the larger perimeter and area.

Length scale factor 4. Perimeter scales by 4: 60. Area scales by 4^2 : 1120.

05

Two similar polygons have corresponding lengths 4 and 24. The smaller has perimeter 22 and area 16. Find the larger perimeter and area.

Length scale factor 6. Perimeter scales by 6: 132. Area scales by 6^2 : 576.

06

Two similar polygons have corresponding lengths 5 and 10. The smaller has perimeter 36 and area 12. Find the larger perimeter and area.

Length scale factor 2. Perimeter scales by 2: 72. Area scales by 2^2 : 48.