

Must Know Stuff of Math SAT I and ACT Big Idea Geometry 8 3 AA, SAS SSS Similar Triangles...

Lesson 047 | Geometry | Similarity and proportions

<https://www.youtube.com/watch?v=rvn2c27TpiM>

Original practice aligned to the saved video title.

Name: _____ Date: _____ Show your reasoning.

01

Two similar polygons have corresponding lengths 6 and 12. The smaller has perimeter 24 and area 96. Find the larger perimeter and area.

02

Two similar polygons have corresponding lengths 10 and 30. The smaller has perimeter 60 and area 20. Find the larger perimeter and area.

03

Two similar polygons have corresponding lengths 7 and 35. The smaller has perimeter 24 and area 10. Find the larger perimeter and area.

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04

Two similar polygons have corresponding lengths 12 and 36. The smaller has perimeter 104 and area 32. Find the larger perimeter and area.

05

Two similar polygons have corresponding lengths 8 and 32. The smaller has perimeter 28 and area 77. Find the larger perimeter and area.

06

Two similar polygons have corresponding lengths 7 and 42. The smaller has perimeter 63 and area 42. Find the larger perimeter and area.

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01

Two similar polygons have corresponding lengths 6 and 12. The smaller has perimeter 24 and area 96. Find the larger perimeter and area.

Length scale factor 2. Perimeter scales by 2: 48. Area scales by 2^2 : 384.

02

Two similar polygons have corresponding lengths 10 and 30. The smaller has perimeter 60 and area 20. Find the larger perimeter and area.

Length scale factor 3. Perimeter scales by 3: 180. Area scales by 3^2 : 180.

03

Two similar polygons have corresponding lengths 7 and 35. The smaller has perimeter 24 and area 10. Find the larger perimeter and area.

Length scale factor 5. Perimeter scales by 5: 120. Area scales by 5^2 : 250.

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04

Two similar polygons have corresponding lengths 12 and 36. The smaller has perimeter 104 and area 32. Find the larger perimeter and area.

Length scale factor 3. Perimeter scales by 3: 312. Area scales by 3^2 : 288.

05

Two similar polygons have corresponding lengths 8 and 32. The smaller has perimeter 28 and area 77. Find the larger perimeter and area.

Length scale factor 4. Perimeter scales by 4: 112. Area scales by 4^2 : 1232.

06

Two similar polygons have corresponding lengths 7 and 42. The smaller has perimeter 63 and area 42. Find the larger perimeter and area.

Length scale factor 6. Perimeter scales by 6: 378. Area scales by 6^2 : 1512.