

Unit 5 Geometry

Introduction to Similar

Scale Factor

A **scale factor** is a type of transformation that makes a figure larger or smaller without changing its shape.

The corresponding sides of an image and a preimage may be used to find the scale factor.

Consider a right triangle with legs of length 3 and 4, and a hypotenuse of length 5. If the scale factor is 2, the new triangle will have legs of length 6 and 8, and a hypotenuse of length 10.

Example: Find the scale factor of the dilation that maps triangle ABC to triangle DEF.

Step 1: Find the ratio of corresponding sides.

Step 2: The ratio of corresponding sides is $\frac{DE}{AB} = \frac{6}{3} = 2$.

Step 3: The scale factor is 2.

Triangle Inequality Theorem

Definition: For the inequality, you will need a compass and a ruler. Although you already use these instruments when constructing figures and exploring geometric relationships, there can be value in comparing with a compass what constructing triangles with given side lengths.

Step 1: Construct an isosceles triangle with the longest length.

For this example, draw a line segment of length 10 cm. Use a compass to draw two arcs with radii of 10 cm, centered at each endpoint of the segment.

Step 2: Use a ruler to draw the line segment between the two points where the arcs intersect. This is the third side of the triangle.

Construct a triangle with side lengths 1 cm, 4 cm, and 5 cm.

TRIANGLE similarity

Geometry Unit Lesson Exploring Similarity

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