

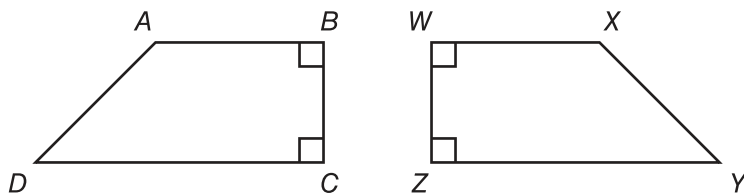
Congruent and Similar Polygons

Consider This

Corresponding sides of congruent polygons have the same length. Corresponding angles of congruent polygons have the same measure.

Corresponding sides of similar polygons are proportional to one another. Corresponding angles of similar polygons have the same measure.

The quadrilaterals below are congruent. Identify the corresponding parts of each of the following.



1 \overline{BC}

2 \overline{YZ}

3 $\angle D$

4 $\angle A$

C \overline{AD}

B \overline{XY}

G \overline{WZ}

G \overline{BC}

H \overline{AB}

D \overline{DC}

F $\angle A$

L $\angle Y$

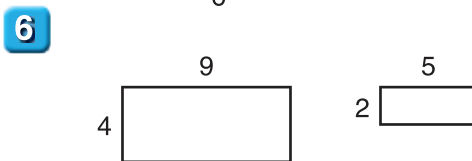
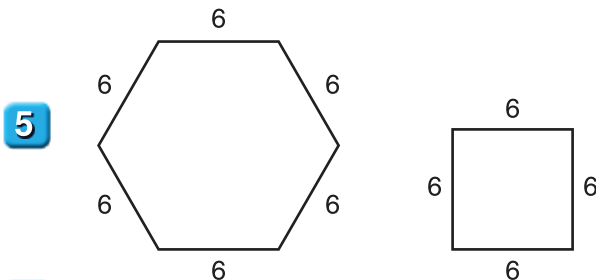
G $\angle Z$

K $\angle W$

H $\angle X$

L $\angle Y$

Determine if the polygons are similar.



I Yes

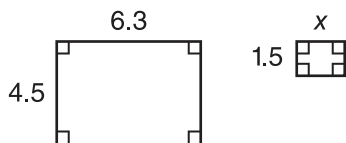
F No

L Yes

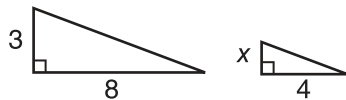
I No

Find the value of x that makes the figures similar.

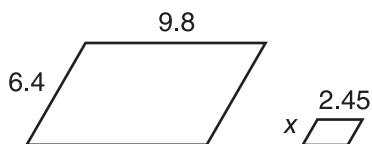
7



8



9

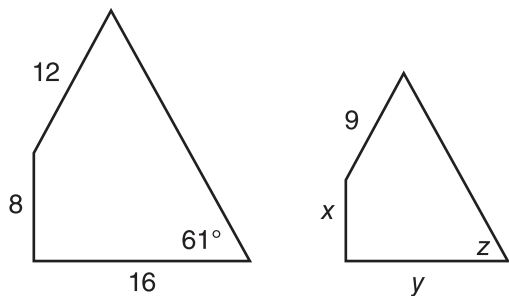


K 1.7 B 2.1 J 18.9

J 1.5 C 6 A 9

A 1.4 K 1.6 E 3.8

The polygons below are similar. Find each value.



10 x

11 y

12 z

A 6 E 8 H 10.6

E 12 C 16 D 21.3

J 29° C 61° D 119°

