



SIMILARITY

Similar



→ Same shape

→ Not necessarily the same size

Same Shape



Similar



Pepsi-Cola

1898



PEPSI-COLA

1905



DRINK PEPSI-COLA

1906



PEPSI-COLA

1940



1950



1998



1962



2003

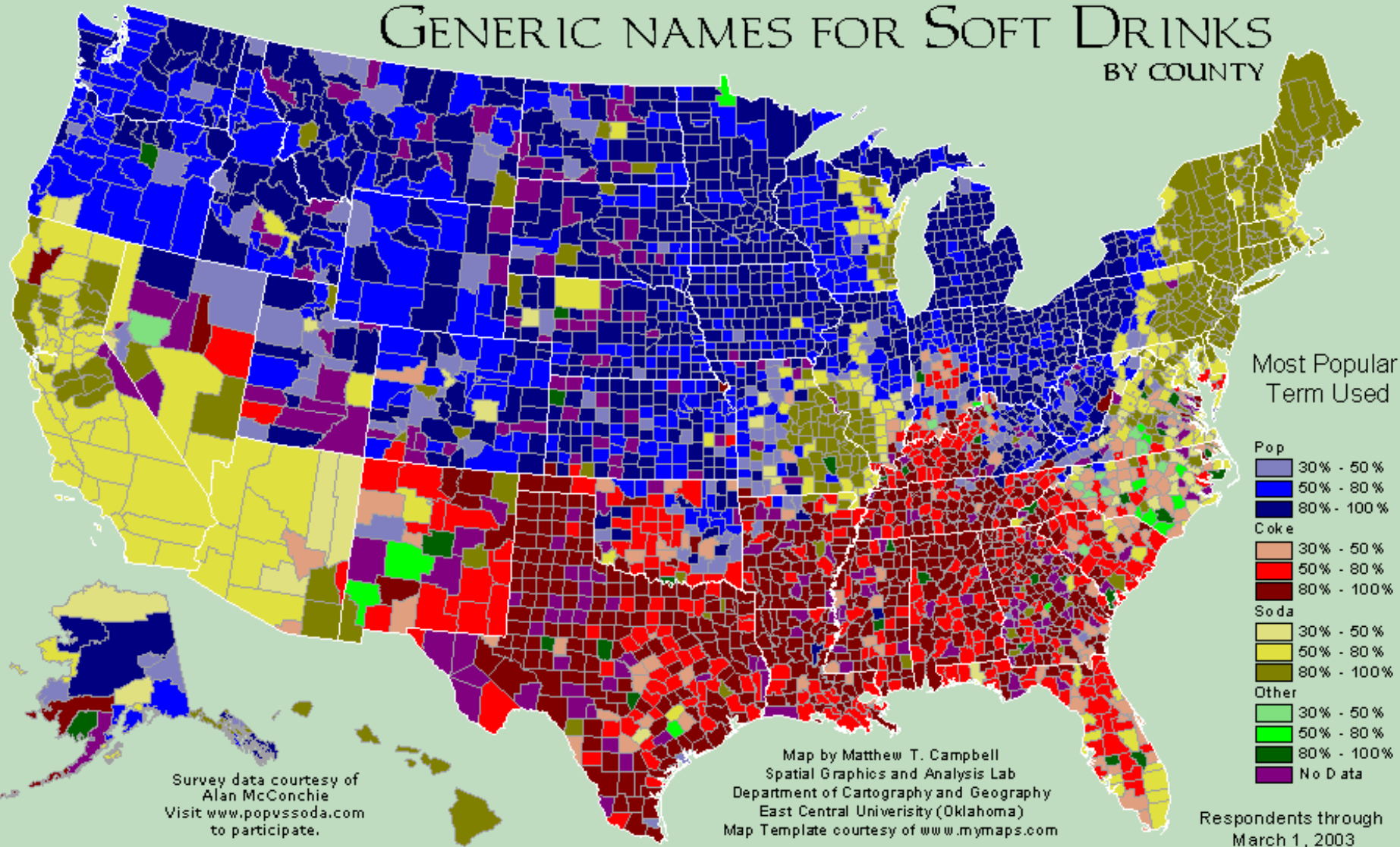
1973



2008 - TODAY

1991-92

GENERIC NAMES FOR SOFT DRINKS BY COUNTY



Most Popular
Term Used

- | | |
|-------|------------|
| Pop | 30% - 50% |
| | 50% - 80% |
| | 80% - 100% |
| Coke | 30% - 50% |
| | 50% - 80% |
| | 80% - 100% |
| Soda | 30% - 50% |
| | 50% - 80% |
| | 80% - 100% |
| Other | 30% - 50% |
| | 50% - 80% |
| | 80% - 100% |
| | No Data |

Survey data courtesy of
Alan McConchie
Visit www.popvsoda.com
to participate.

Map by Matthew T. Campbell
Spatial Graphics and Analysis Lab
Department of Cartography and Geography
East Central University (Oklahoma)
Map Template courtesy of www.mymaps.com

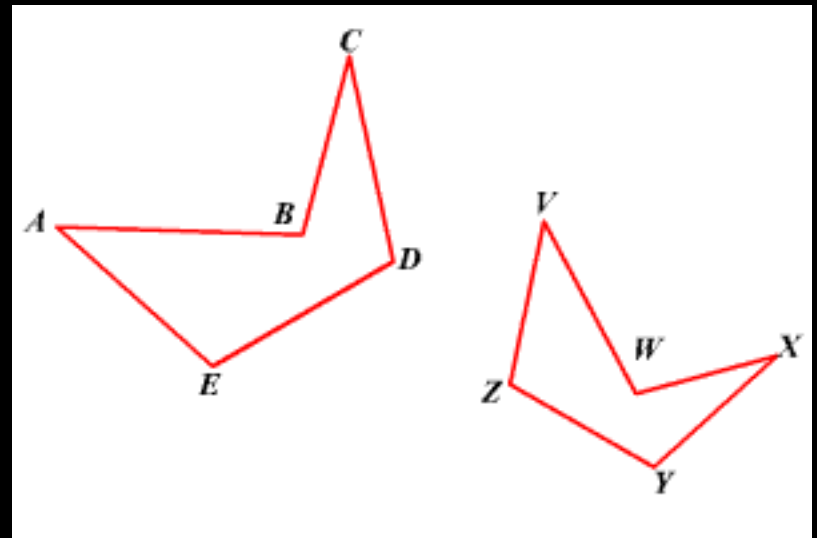
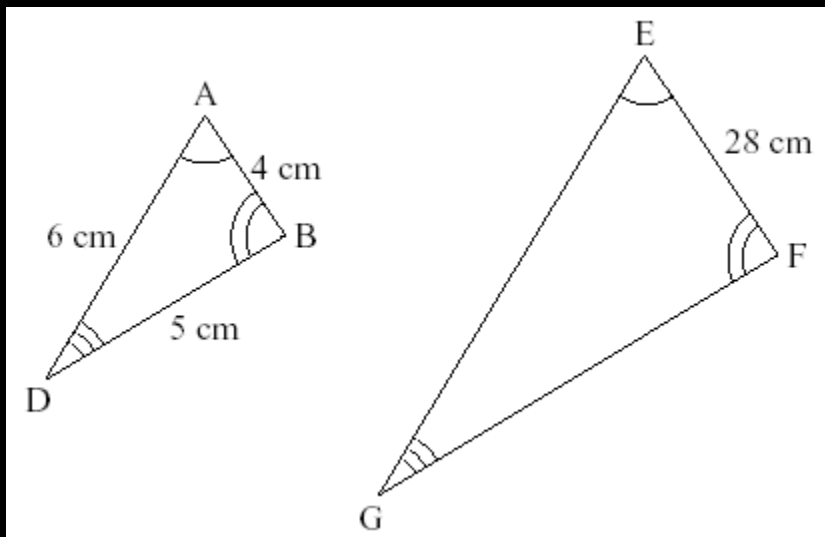
Respondents through
March 1, 2003

In similar polygons:

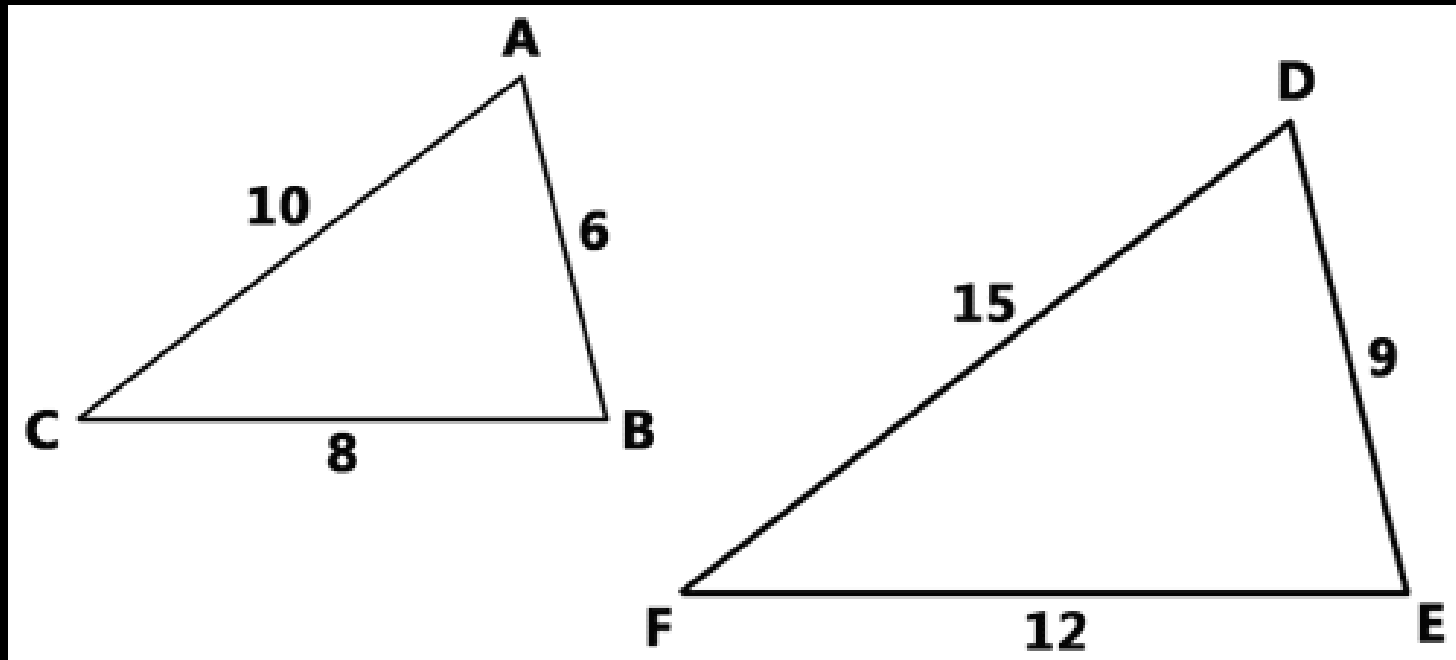
→ Corresponding angles are congruent.

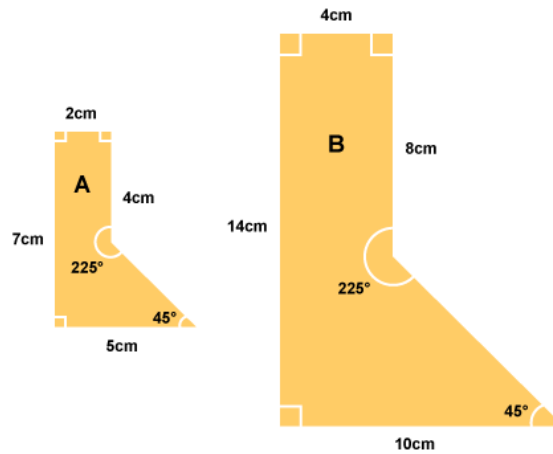
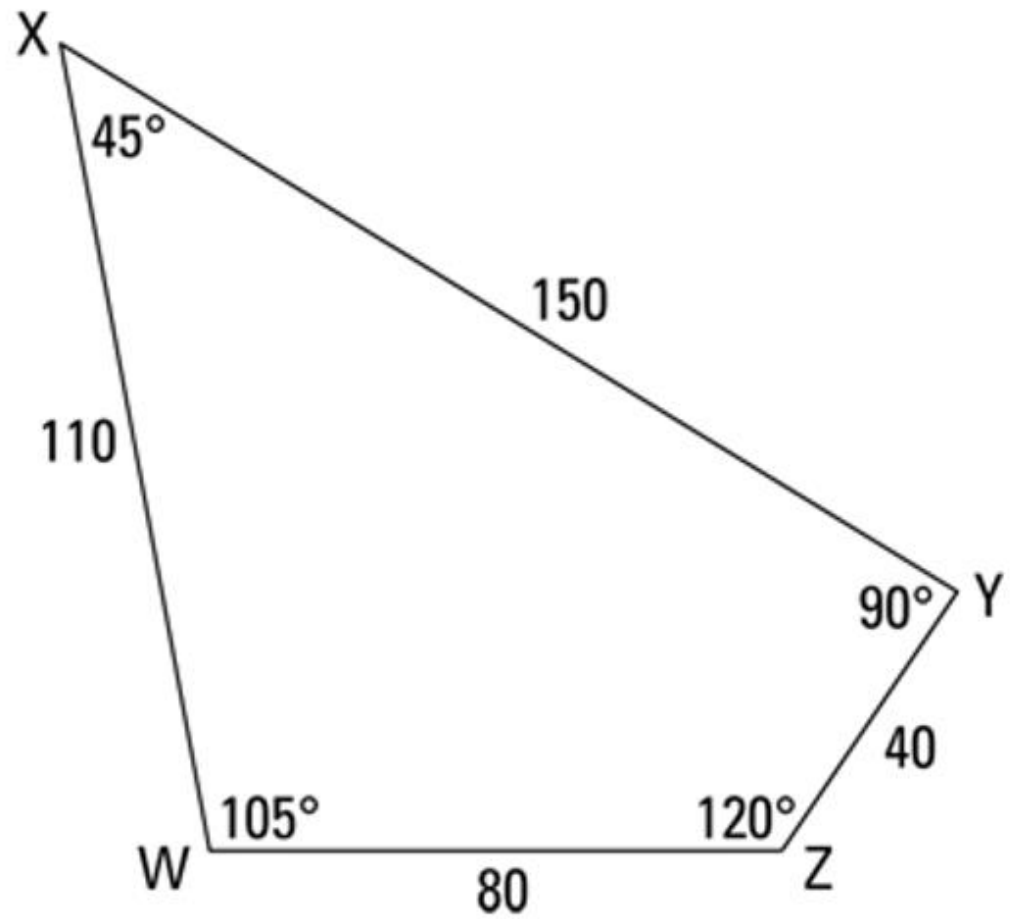
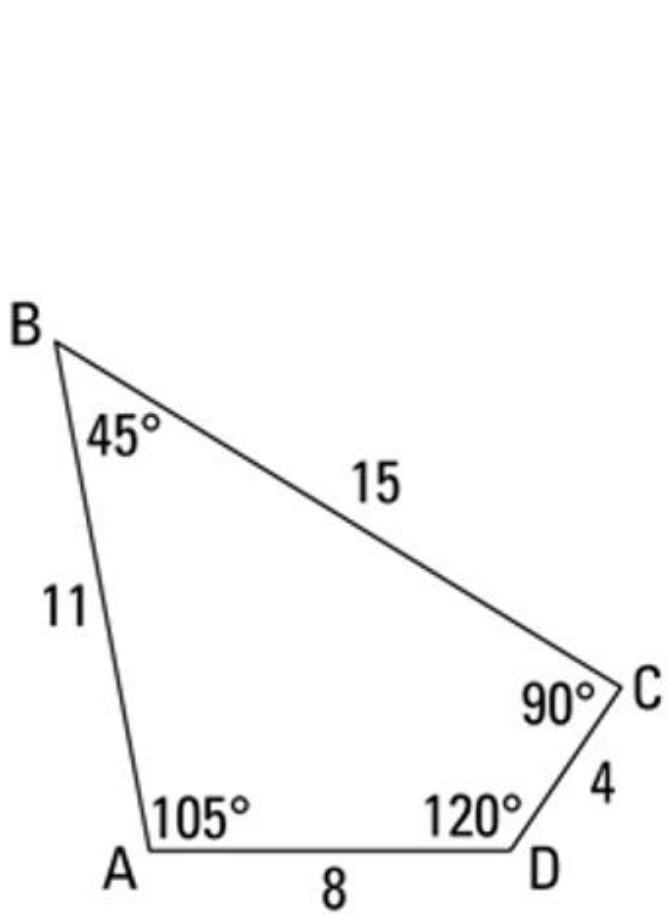
→ Corresponding sides are proportional.

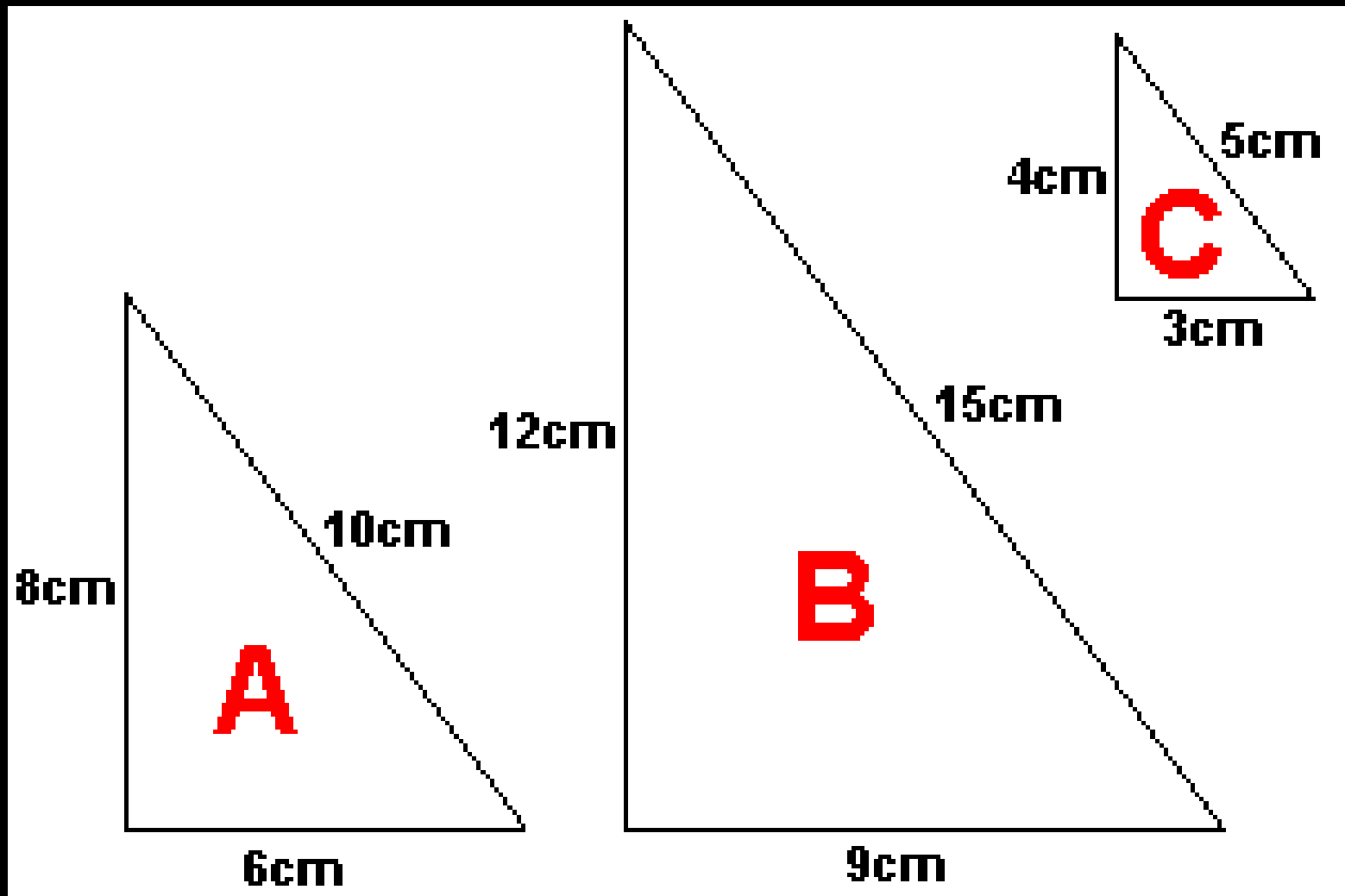
→ Corresponding angles are congruent.



→ Corresponding sides are proportional.



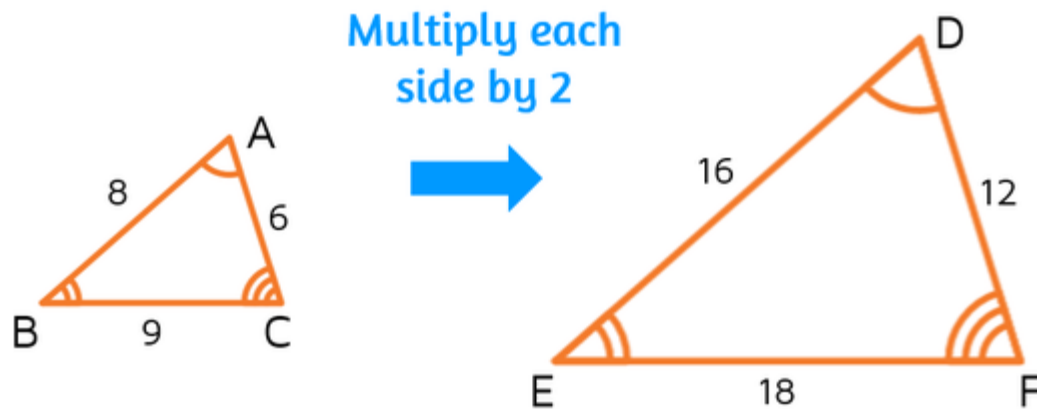


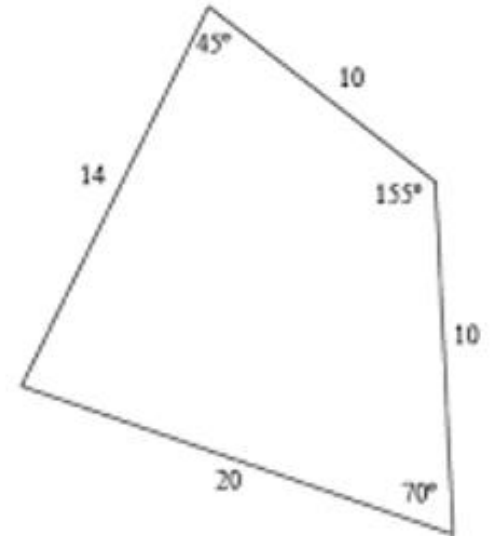
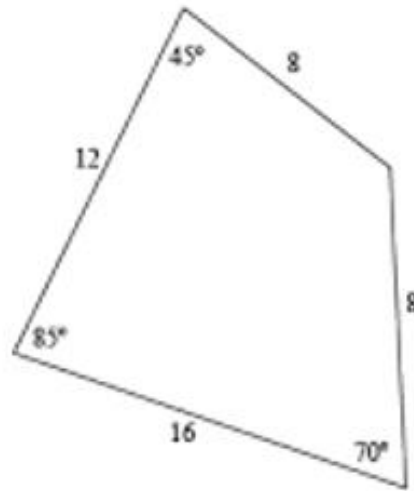
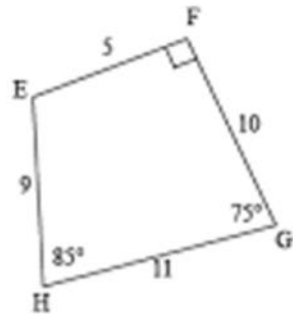
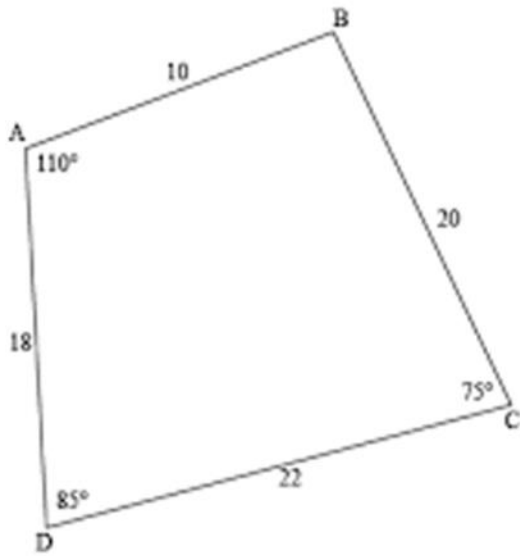


Scale Factor

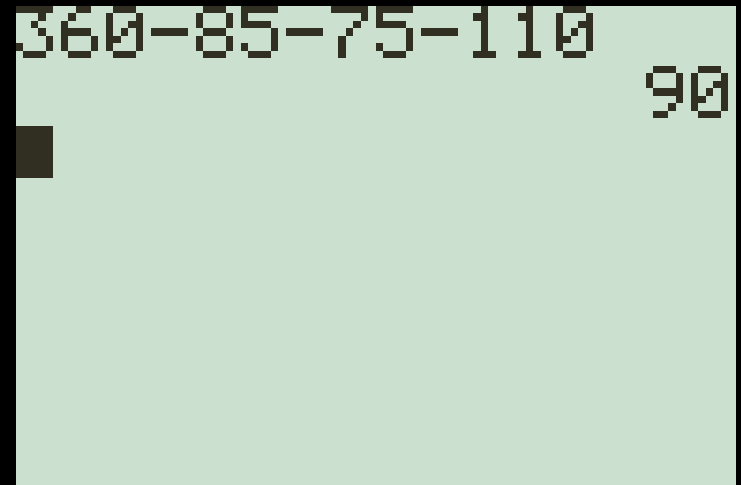
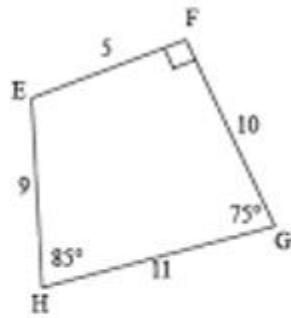
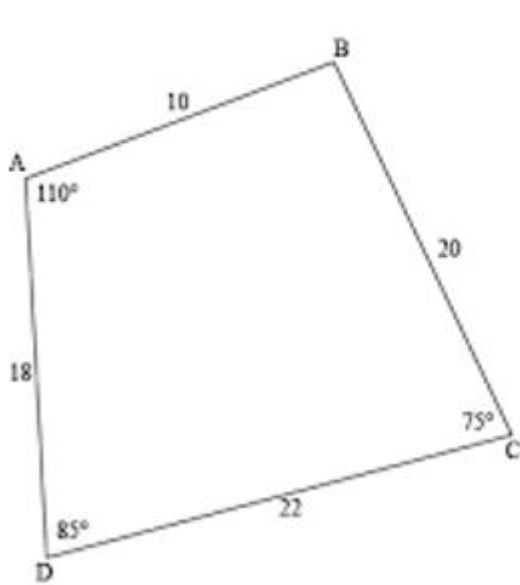
How much you multiply the sides of one polygon by to get a similar polygon

The scale factor of $\triangle ABC$ to $\triangle DEF$ is **2**.





Are pairs of polygons similar?

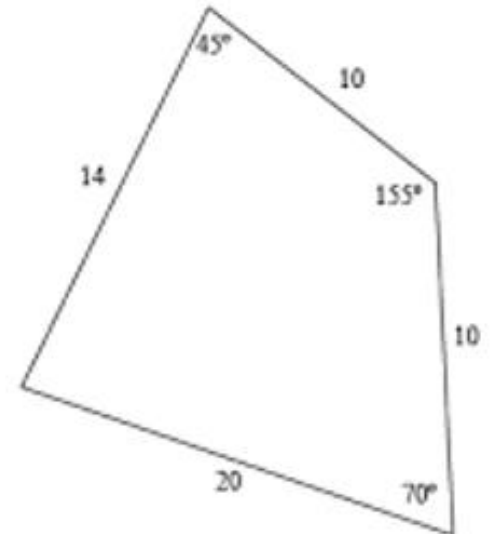
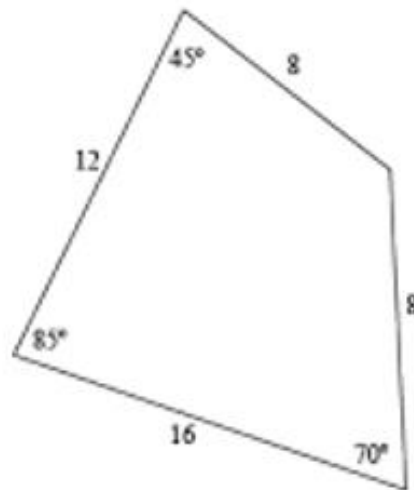


- All angles are congruent
- Sides are multiplied by $\frac{1}{2}$

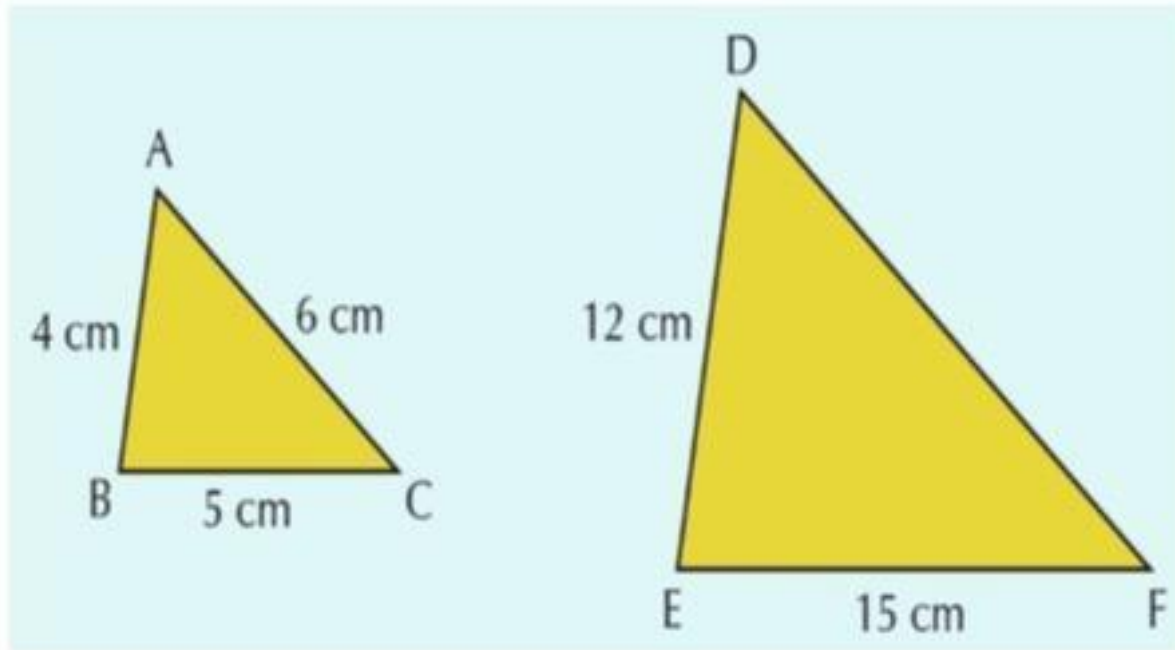
YES

360-45-155-70

90



NO



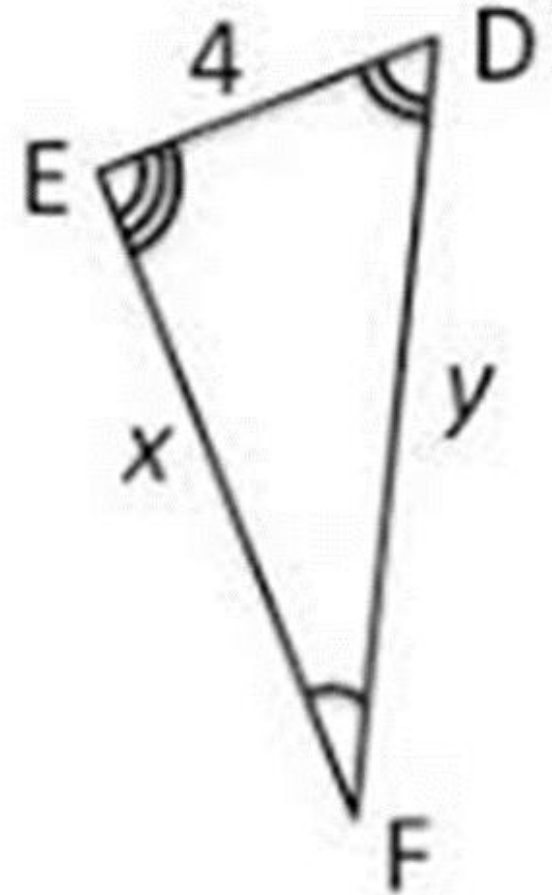
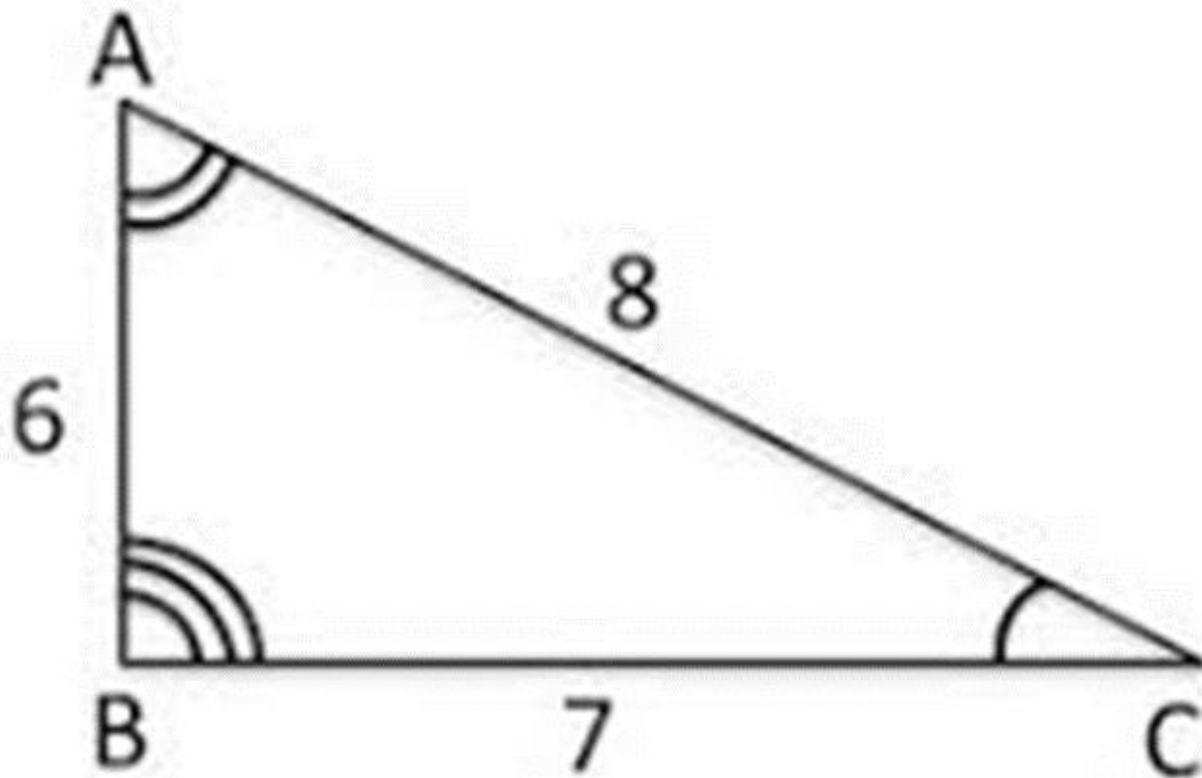
The above two shapes are similar. What is the value of DF ?

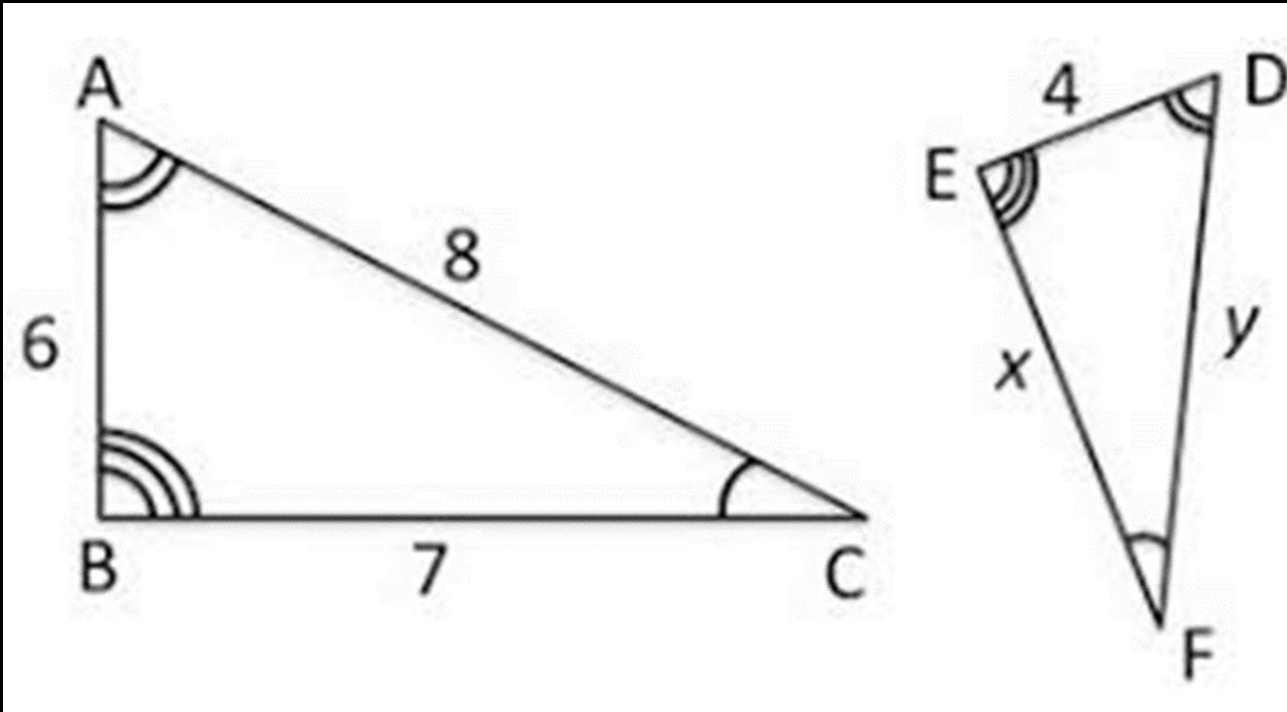
A) 16 cm

B) 12 cm

C) 14 cm

D) 18 cm





$$\frac{6}{4} = \frac{7}{x}$$

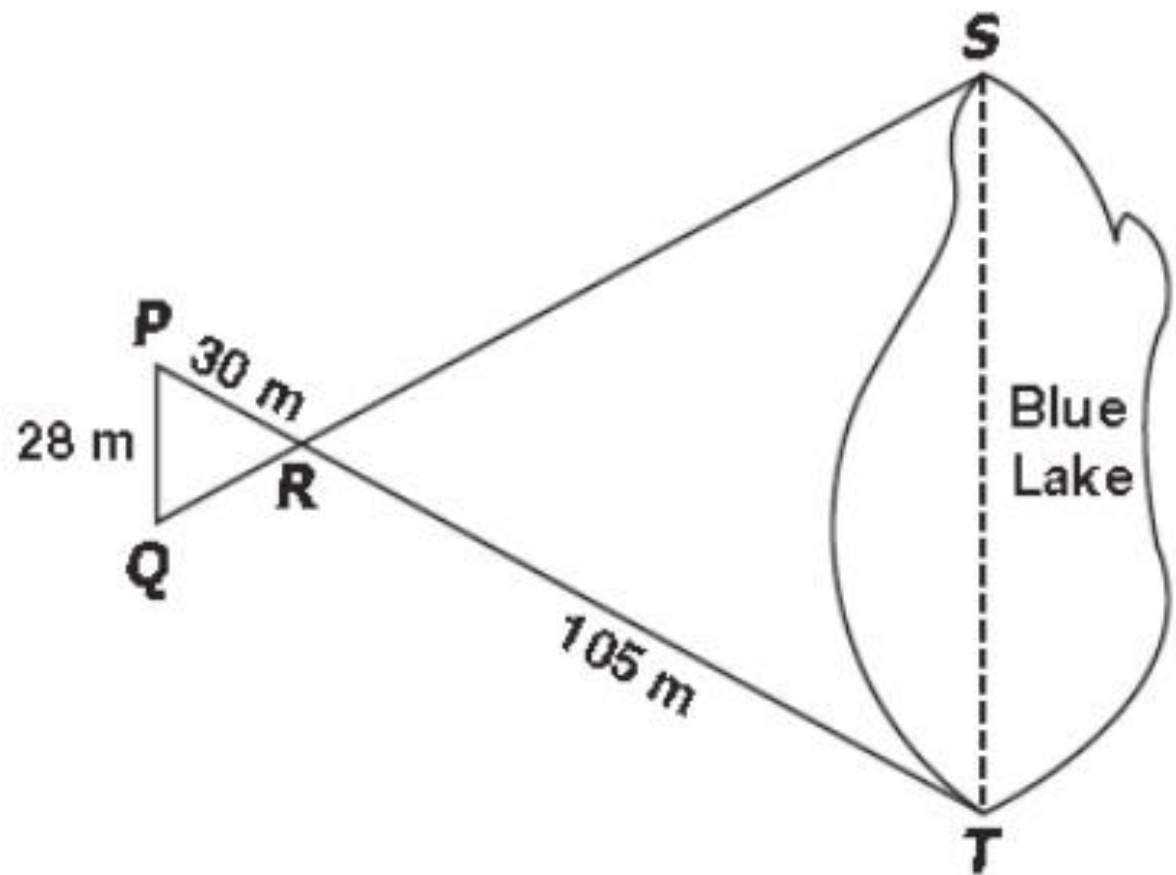
$$\frac{6}{4} = \frac{8}{y}$$

$$7 * 4 / 6$$

$$4.6666666667$$

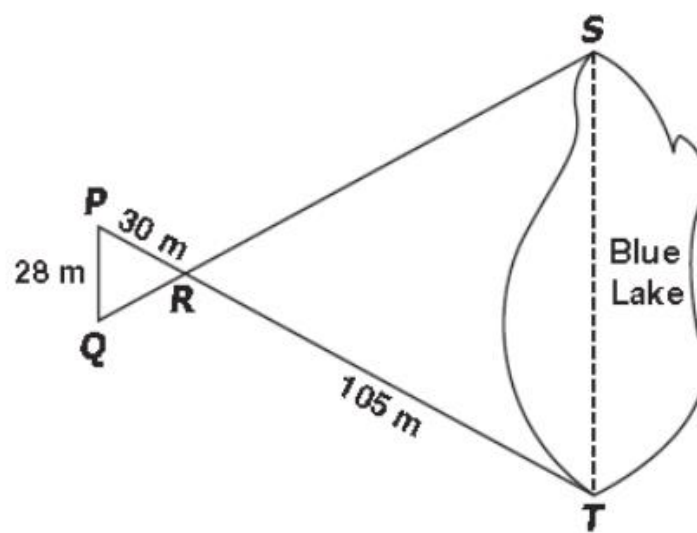
$$8 * 4 / 6$$

$$5.3333333333$$



If \overleftrightarrow{PQ} is parallel to \overleftrightarrow{ST} , what is ST , the width of the lake?

- | | |
|--------------|--------------|
| a. 62 meters | c. 84 meters |
| b. 70 meters | d. 98 meters |



If \overrightarrow{PQ} is parallel to \overrightarrow{ST} , what is ST , the width of the lake?

- a. 62 meters
- b. 70 meters
- c. 84 meters
- d. 98 meters

$$\frac{30}{105} = \frac{28}{x}$$

$$105 * 28 / 30$$

98

Why can't you be more like your sister?

