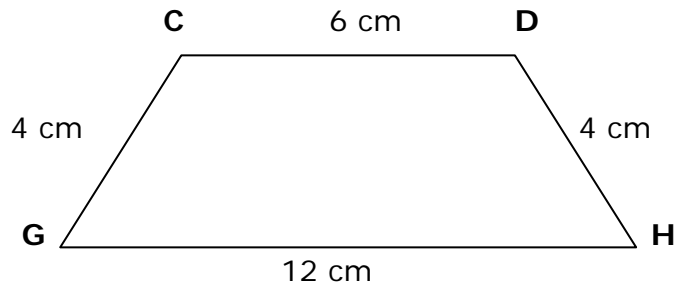
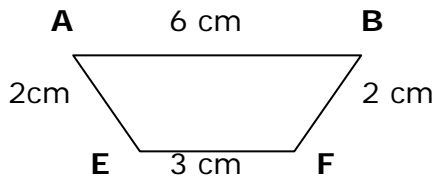


## Relationships With Similar Figures

Name \_\_\_\_\_



7. If  $\angle A$  correspond to  $\angle G$ , which angle corresponds to  $\angle B$ ?      To  $\angle E$ ?      To  $\angle D$ ?
8. Explain how you identified which angle corresponded to which?
9.  $\angle A$  and  $\angle G$  are corresponding. Use a protractor to measure each. How do their measures compare?
10. What is the measure of  $\angle E$ ?      Of the angle that corresponds to  $\angle E$ ?
11. How do corresponding angles of similar figures compare?
12. If  $\angle D$  measured  $120^\circ$ , which angle on the large trapezoid would also measure  $120^\circ$ ?
13. Which side on the small trapezoid corresponds to the side on the larger trapezoid that measures 12 cm?
14. Are these corresponding sides congruent?
15. Write a ratio comparing the length of 3 cm side to its corresponding side. (Simplify the ratio).
16. Which side on the small trapezoid corresponds to side DH on the larger trapezoid?
17. Are these corresponding sides congruent?
18. Write a ratio comparing the length of segment DH to its corresponding side. (Simplify the ratio).
19. Explain how the ratio of segments BF:DH compares to the ratio of segments EF:CD
20. Complete this statement:  

If two figures are similar, their corresponding angles will be \_\_\_\_\_. And, all pairs of corresponding sides will\_\_\_\_\_.