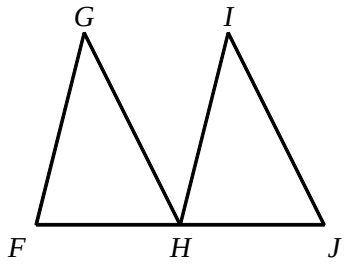
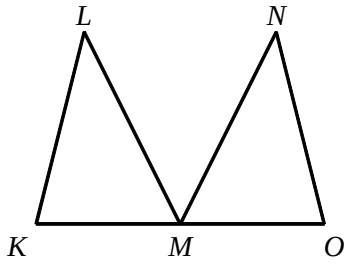
NAME:_____

P.I. G.G.29: Identify corresponding parts of congruent triangles

1. $\Delta FGH \cong \Delta HIJ$. List all the corresponding equal parts.



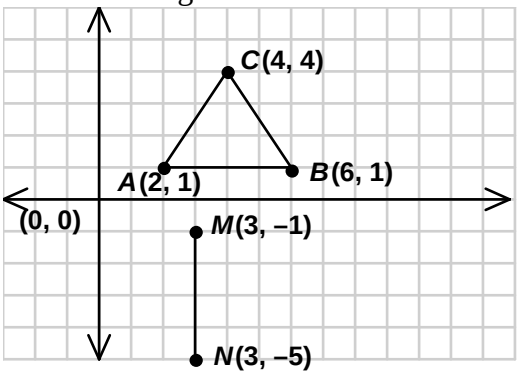
2. $\Delta KLM \cong \Delta ONM$. List all the corresponding equal parts.



3. If $\Delta ABC \cong \Delta DEF$, $AB = 18$ cm, $\angle ABC = 47°$, and $\angle DFE = 13°$, which of the following statements is false?

[A] $\angle B \cong \angle D$ [B] $\angle CAB = 120°$ [C] $\overline{AC} \cong \overline{DF}$ [D] $ED = 18$ cm

4. ΔABC is congruent to ΔMNO. Find the coordinates of point O.



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5. Use a protractor and ruler to determine if figure 1 is congruent to figure 2. If so, write a congruence statement.

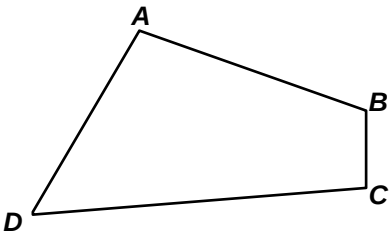


Figure 1

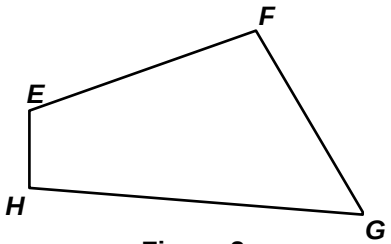
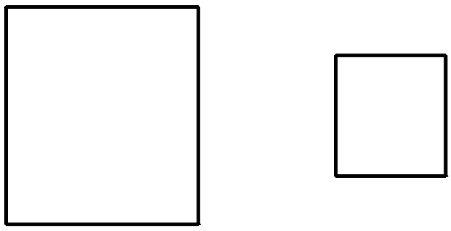
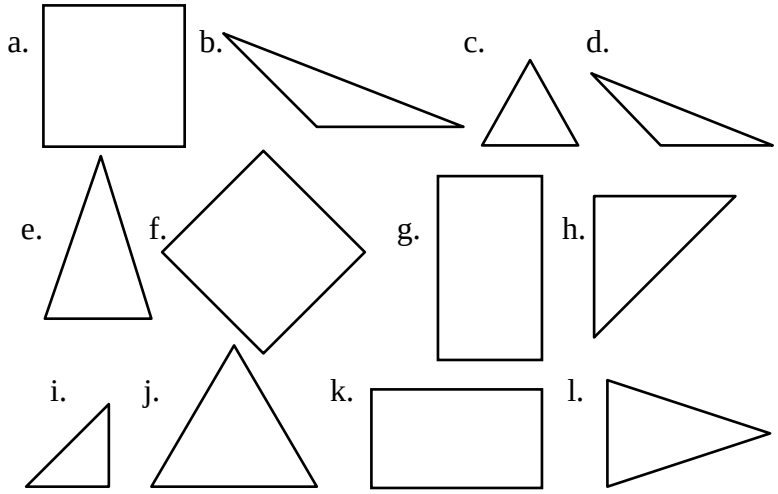


Figure 2

6. Tell whether the polygons are congruent, similar, or neither.



7. Which statement is FALSE?



[A] g and k are similar [B] c and j are similar [C] a and f are similar [D] b and d are congruent

[1] $\angle F = \angle IHJ$, $\angle G = \angle I$, $\angle FHG = \angle J$
$FG = HI$, $FH = HJ$, $GH = IJ$

[2] $\angle K = \angle O$, $\angle L = \angle N$, $\angle KML = \angle OMN$
$KL = ON$, $KM = OM$, $LM = NM$

[3] A

[4] $(6, -3)$ or $(0, -3)$

[5] yes, $ABCD \cong FEHG$

[6] similar

[7] D