Name: _____

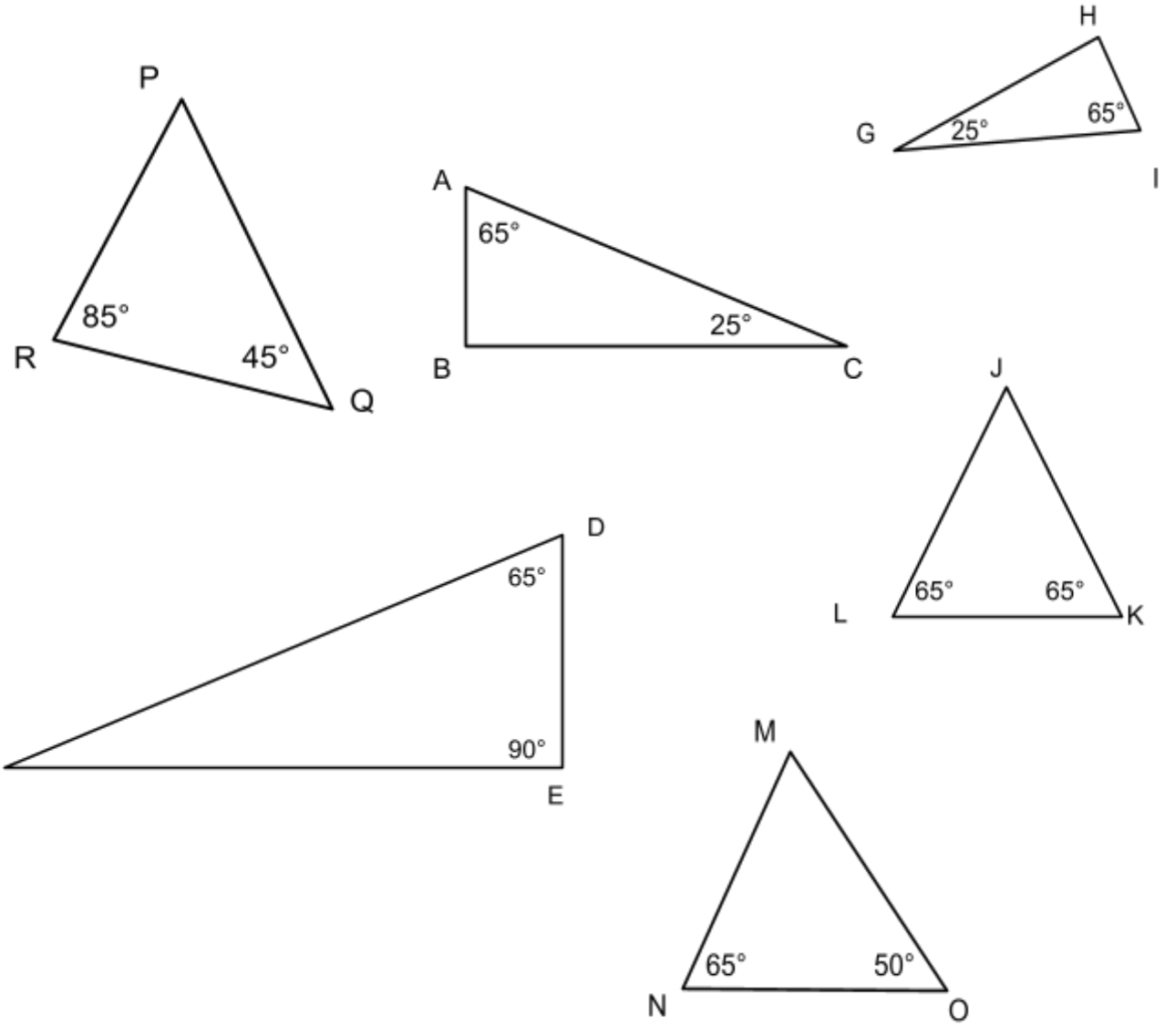
Period: _____

G-SRT.B.5 Similar Triangles

Using the patterns you have found, you gave a **definition** for triangles that are similar as:

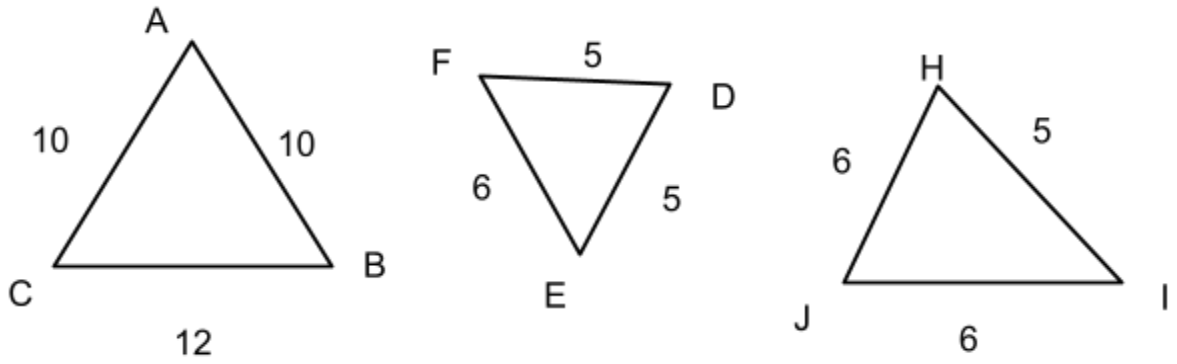
Similar triangles are triangles that have are corresponding angles that are equal and have corresponding sides that are proportional.

1. Find the measure of each missing angle. Then, name all the triangles that are similar and justify.



2. Which triangles are similar to △ABC? Determine if the triangles are similar by finding the ratios of their sides. Triangles are not to scale.

a.



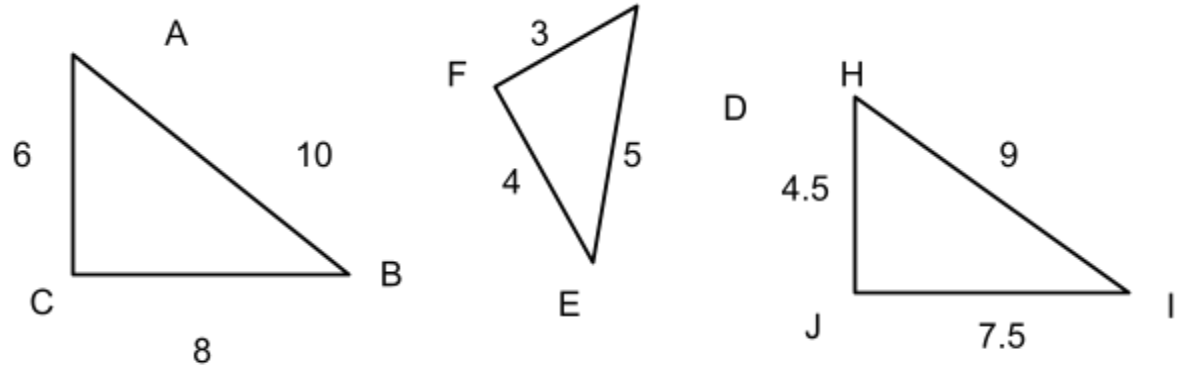
☐△ABC ~ △DEF and the ratio is _____

☐△ABC ~ △GHI and the ratio is _____

☐Both triangles are similar

☐Neither triangle is similar

b.



☐△ABC ~ △DEF and the ratio is _____

☐△ABC ~ △GHI and the ratio is _____

☐Both triangles are similar

☐Neither triangle is similar