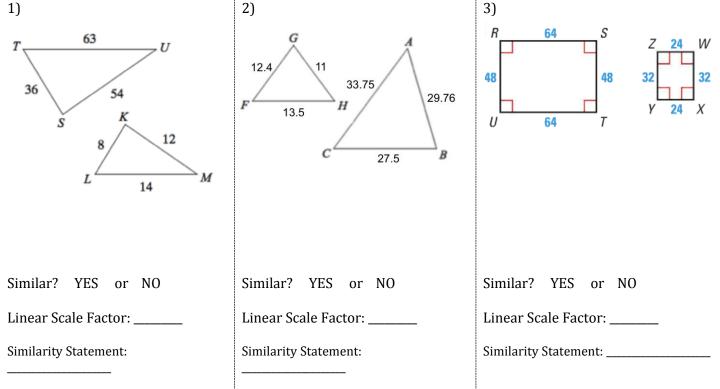
Geometry Honors Unit 3: Similar Figures and Dilation 3.1-3.2 Review

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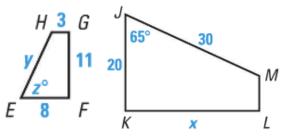
Period:

Directions: Determine if the polygons are similar.

If they are, determine the linear scale factor and write a similarity statement.

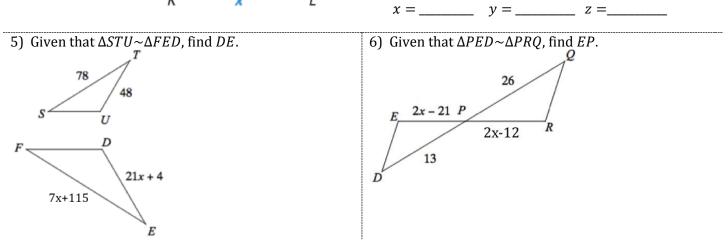


Directions: In the diagram, *JKLM~EFGH*. 4)

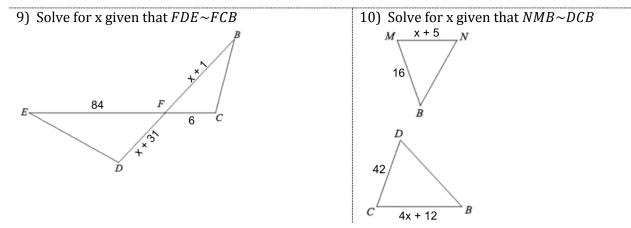


a) Find the scale factor of *JKLM* to *EFGH*.

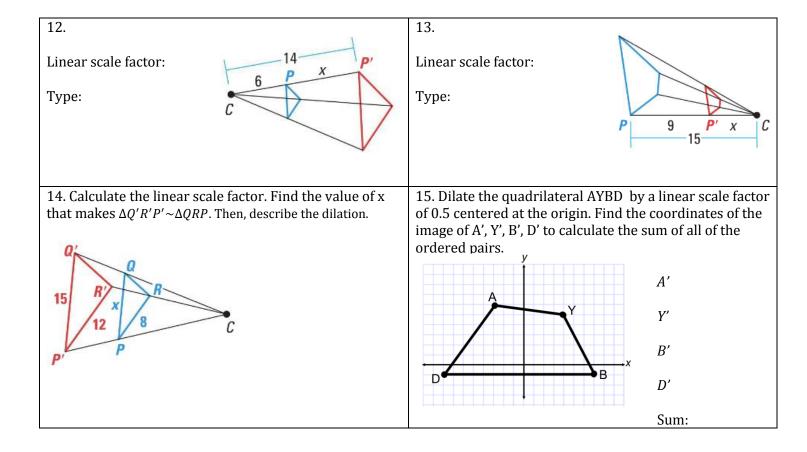
b) Find the values of *x*, *y*, and *z*.



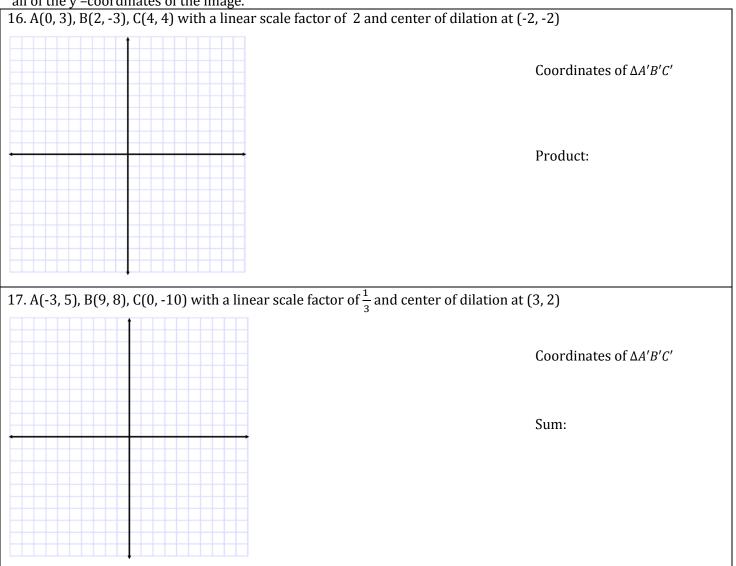
8) Which of the following triangle measurements 7) Which of the following triangle measurements represents a similar triangle to one with measurements represents a similar triangle to one with measurements of 32, 11, and 15 inches? of 25, 33, and 42feet? (a) 10.66 in, 3.66 in, and 1.66 in (a) 10ft, 13.2ft, and 16.8ft (b) 8 in, 2.75 in, and 5 in (b) 12.5 ft, 1.5ft, and 10.5ft (c) 16 in, 5.5 in, and 7.5 in (c) 75 ft, 99ft, and 126ft (d) 64 in, 22 in, and 30 in (d) 100 ft, 132ft, and 168ft (e)96in, 22 in, and 15 in (e)50 ft, 66ft, and 84ft



11) The lengths of the sides of a triangle have the ratio 2:6:7. If the perimeter of the triangle is 52.5 yards, what is the length of the smallest side?



Directions: For exercises 16 and 17: Given the vertices of a triangle and the linear scale factor, find the vertices of the dilated image. Graph the image on the coordinate plane using proper notation. Finally, find the product or sum all of the y –coordinates of the image.



Directions: Write the rule for the following dilations. Make sure to include the scale factor and the center of dilation.

