4.4 Classwork: Using GraspableMath for area and volume calculations

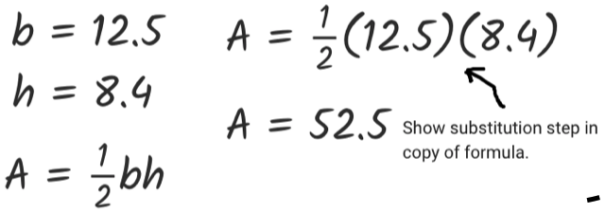
1. Do Now: Find the area of a triangle with base $b = 12.5$ and height $h = 8.4$. Use the Graspable Math activity linked above. Paste a cropped screenshot of the first problem here. It should look like the modelled solution below.

   ☐ Copy expressions (drag the handle on the left of the formula)

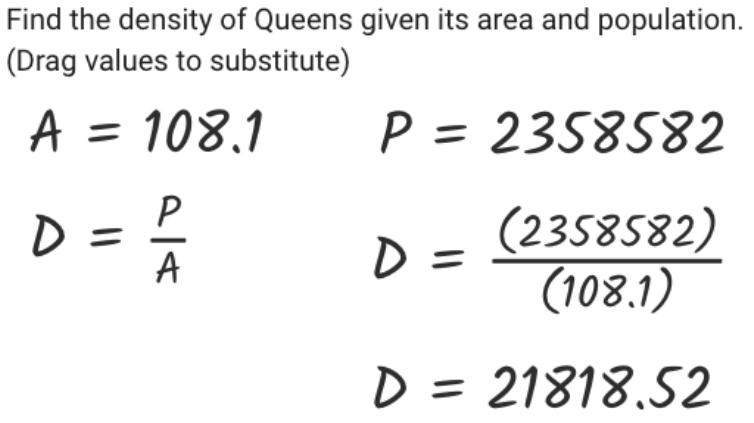
   ☐ Substitute values (drag the variable onto the formula)

   ☐ Show/hide steps (show the substitution, final line, and key steps)

   ☐ Copy/paste screenshot: command-control-shift-4 (Mac)



2. Find the area of a semi-circle with radius $r = 7.5$. Paste a cropped screenshot of the Graspable Math. Compare your format to the model solution.



3.

4. Find the population density of Queens, New York. Paste a cropped screenshot of the Graspable Math. Make a copy of the formula and show the substitution step.

2

Find the density of Queens given its area and population.
(Drag values to substitute)

$A = 108.1$ $P = 2358582$

$D = \frac{P}{A}$ $D = \frac{(2358582)}{(108.1)}$

$D = 21818.52$