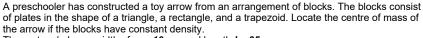
20-8-KIN-DK-1)

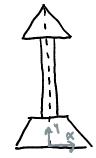
Beginner Centre of mass



The rectangle has a width of w = 10mm and length l = 35 mm.

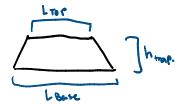
The triangle has a base b = 25 mm and height $h_{tri} = 25 \text{ mm}$.

The trapezoid has a height h_trap = 12.5, top length I_top = 20 mm, and base length I_base =









Trapezoid:
$$Y_3 = \frac{1}{3} \left(\frac{2a+b}{4+b} \right) h = \frac{1}{3} \left(\frac{2(20) + 30}{20 + 30} \right) (12.5) = \frac{55}{6}$$

$$A_3 = \frac{1}{5} h(a+b) = \frac{1}{5} (12.5)(20 + 30) = 312.5$$

$$16 = \frac{335}{6}(312.5) + 30(350) + \frac{35}{6}(312.5) = 30.53414463$$