

$$a_1 = 3.0$$

$$a_2 = 11.4$$

$$\gamma_{1,2} = 1.3$$

$$res = \frac{a_1 + a_2}{\gamma_{1,2}} + a_1^2 = \frac{3.0 + 11.4}{1.3} + 3.0^2 = 20.1$$

$$res - a_1^2 = 20.1 - 3.0^2 = 11.1 \text{ kg}$$