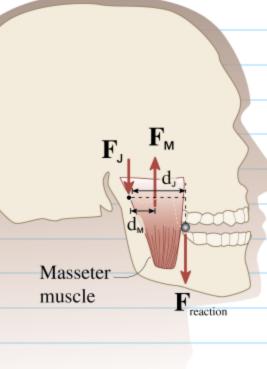
21-5-5-2-GD-001



Bite the bullet is an old expression meaning to

be stoic in the face of pain. The masseter muscles in our bodies, is attached relatively for from the joint, enabling large forces to be exerted by the bade teeth. If the masseter muscle applies a force of $F_M = F_M N$, $J_M = J_M M$, and $J_J = J_J M$:

a) Calculate the force exerted by the bullet on the lower jaw.

b) Calculate the force on the joint, Fz.

Fm, In, Is (convert con to m for calculations) (force of muscle) (joint at pivot) a) + 5 = M = 0 = Fm (dm) - Frenction (dj) Frenction = Fm (dm) b) 1+ ZFy=0= Fn-Fj-Frenction F3 = Fn - Frenction