**IB Physics**

**9D Group Quiz**

Name

**Show your work, and circle your answers and use sig figs to receive full credit.**

Find the missing force to achieve torque equilibrium:

125 N

165 N

F = ?

12.0 m

9.00 m

10.0 m

385 N

215 N

118 N

7.00 m

r = ?

4.00 m

A 112 kg beam is 7.00 m long, and has a 95.0 kg worker standing 2.50 m from the left side, and a 65.0 kg worker standing 1.10 m from the right side. The left side is supported, but how much force does a support 5.50 m from the left side need to exert to hold up the beam? (Can you figure out the force exerted by the leftmost support? - hint - set up a y equilibrium equation...)



112 kg





F = ?