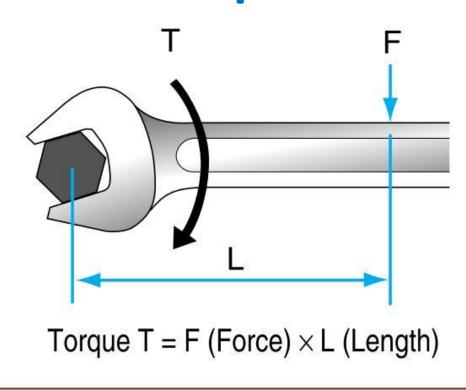
## **Torque**



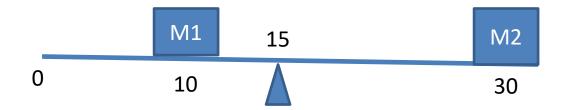
For a lever to be in equilibrium torques on both sides must balance each other.

Units of torque are N·m

## **Homework 24**

## **Problem 1**

A ruler is used to balance two weights as shown in figure 1. The ruler total length is 30 cm, it is supported at its center (at 15 cm mark). Mass M1=30 g, is located at 10 cm mark. The other mass, M2 is at 30 cm mark. Find M2



**Problem 2 (experimental)** Use a ruler and a pencil to find the ratio of masses of US quarter and US penny. You may use other two coins if you wish, Its OK to use several identical coins. Make a picture of your experiment, describe procedure and give your results.