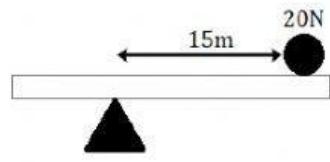
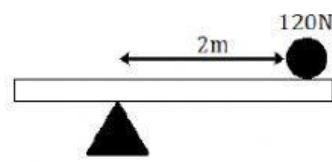
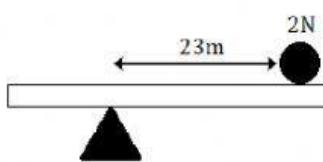


NAME: _____

DATE: _____
MOMENTSRecall that **MOMENT = FORCE X DISTANCE** (from pivot). Answers should be to 1 decimal place where applicable.1. Calculate the moments of the following systems.

Moment = _____ X _____

= _____ N x _____ m

= _____ Nm

Moment = _____ X _____

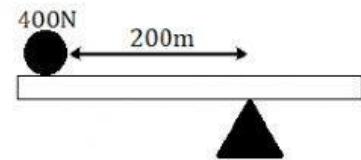
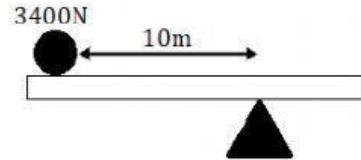
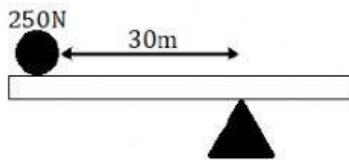
= _____ N x _____ m

= _____ Nm

Moment = _____ X _____

= _____ N x _____ m

= _____ Nm



Moment = _____ X _____

= _____ N x _____ m

= _____ Nm

Moment = _____ X _____

= _____ N x _____ m

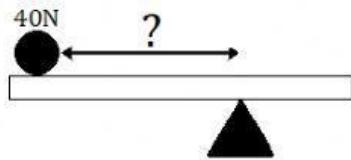
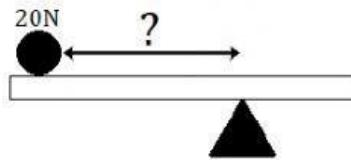
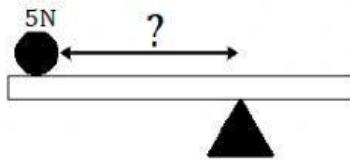
= _____ Nm

Moment = _____ X _____

= _____ N x _____ m

= _____ Nm

2. Find the missing DISTANCES if all of the systems below have a **Moment of 200Nm**.

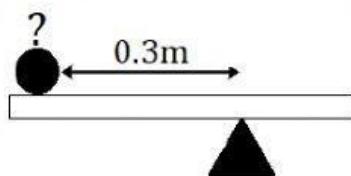
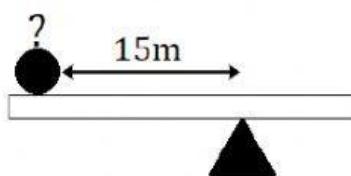
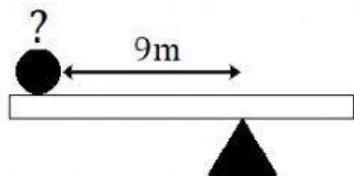


$$\begin{aligned}\text{Distance} &= \text{_____} / \text{_____} \\ &= \text{_____ Nm} / \text{_____ N} \\ &= \text{_____ m}\end{aligned}$$

$$\begin{aligned}\text{Distance} &= \text{_____} / \text{_____} \\ &= \text{_____ Nm} / \text{_____ N} \\ &= \text{_____ m}\end{aligned}$$

$$\begin{aligned}\text{Distance} &= \text{_____} / \text{_____} \\ &= \text{_____ Nm} / \text{_____ N} \\ &= \text{_____ m}\end{aligned}$$

3. Find the missing FORCES if all of the systems below have a **Moment of 450Nm**.



$$\begin{aligned}\text{Force} &= \text{_____} / \text{_____} \\ &= \text{_____ Nm} / \text{_____ m} \\ &= \text{_____ N}\end{aligned}$$

$$\begin{aligned}\text{Force} &= \text{_____} / \text{_____} \\ &= \text{_____ Nm} / \text{_____ m} \\ &= \text{_____ N}\end{aligned}$$

$$\begin{aligned}\text{Force} &= \text{_____} / \text{_____} \\ &= \text{_____ Nm} / \text{_____ m} \\ &= \text{_____ N}\end{aligned}$$