Pulled in Two Directions

Consider the situation below. A stuffed animal cat is attached to two force sensors (or force metres). One sensor is attached to a stationary object and the other is attached to a pulley which has a mass attached to it.

Which arm is pulled harder?

Predict: the force measurement in each sensor.

Observe: the force measurement in each sensor.

Explain: explain your observations
The Cat!

Hide the Force Reading

String with mass attached (1kg)

After the POE you can use two large force metres to show how two people pulling experience the same force between them.

Reveal the forces are equal.