**Unit 3 Diagnostic Test**

1.

The body consists of three joined wood members. A rod passes through a hole in the body. The rod is kept stationary. The body lies flat on a table and can pivot about the rod.

1

2

2

2

As a baseline case of tending to rotate the body let the finger push as shown. Note the dimensions.

For each of the following different cases of pushing, indicate if the rotation is clockwise (CW) or counter-clockwise (CCW) and how strong the rotational tendency is compared to the baseline case.

Rotation is CW\_\_ CCW\_ None \_\_\_\_

Rotation tendency is how much times the baseline case

0\_\_ 1/3\_\_ 1/2 \_\_ 1\_\_ 2 \_\_ 3\_\_

Rotation is CW\_\_ CCW\_ None \_\_\_\_

Rotation tendency is how much times the baseline case

0\_\_ 1/3\_\_ 1/2 \_\_ 1\_\_ 2 \_\_ 3\_\_

Rotation is CW\_\_ CCW\_ None \_\_\_\_

Rotation tendency is how much times the baseline case

0\_\_ 1/3\_\_ 1/2 \_\_ 1\_\_ 2 \_\_ 3\_\_

Rotation is CW\_\_ CCW\_ None \_\_\_\_

Rotation tendency is how much times the baseline case

0\_\_ 1/3\_\_ 1/2 \_\_ 1\_\_ 2 \_\_ 3\_\_