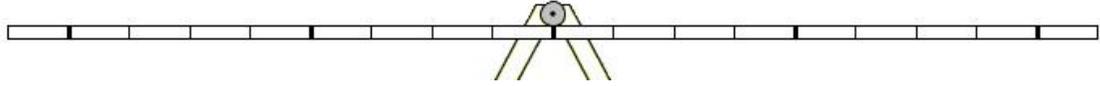
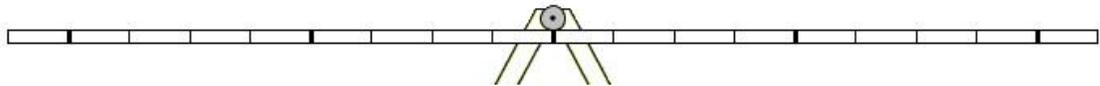


Pre-lab for Balancing Act

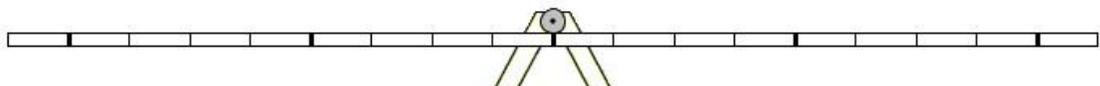
The following picture represents a board that can pivot at its center



1. Draw what would happen to the board if you stood on one end.
2. You have two identical **10 kg** bricks. Carefully draw where you would place each brick on the board so that the board stays balanced. (*More than one possible correct answer*)



3. Now draw the forces from each brick in your picture above.
4. You have a **10 kg** brick and a **20 kg** brick. Carefully draw where you would place each brick on the board so that the board stays balanced. . (*More than one possible correct answer*)



5. Now draw the forces from each brick in your picture above, and explain why the board stays balanced.