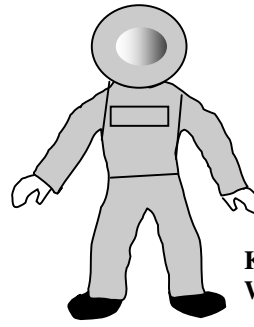

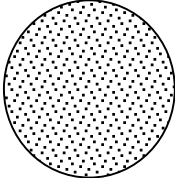

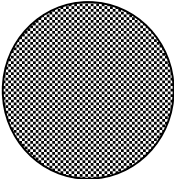

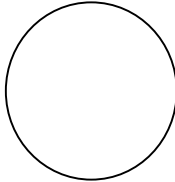




**How Much Does Kate Weigh?**

Kate the Astronaut weighs exactly 150 lbs on the Earth. She is sent on a mission to travel to several planets. Make an *educated guess* concerning how much you think she would weigh on the following planets and give the reasoning behind your answer.



**Kate the Astronaut  
Weight = 150 lbs on Earth**

<p>The planet “Styro,” which is like the earth in every way, but it is has the same density as Styrofoam.</p>	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>Earth</p> </div> <div style="text-align: center;">  <p>Styro</p> </div> </div>
<p>The planet “Nogo,” which is like the earth in every way, but it does not spin on its axis (the earth spins once every 24 hours).</p>	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>Earth</p> </div> <div style="text-align: center;">  <p>Nogo</p> </div> </div>
<p>The planet “Vaccuo,” which is like the earth in every way, but it does not have an atmosphere at all.</p>	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>Earth</p> </div> <div style="text-align: center;">  <p>Vaccuo</p> </div> </div>
<p>The planet “Tiny,” which is like the earth in every way, but has 1/2 the diameter of the earth.</p>	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>Earth</p> </div> <div style="text-align: center;">  <p>Tiny</p> </div> </div>