

Name _____
Date _____

Period _____

Pressure Practice

1. When a ballerina dances on her toes the surface area that both feet touch on the ground is 8 in^2 . If the ballerina has a weight of 110 lbs, what is her pressure on the ground? *Show all work.*



2. A Sumo wrestler exerts a pressure of 12.9 lbs/in^2 on the ground when he stands on two feet. If the Sumo wrestler's feet have a surface area of 70 in^2 , what is his force (in pounds)? *Show all work.*

3. If you accidentally were stranded on thin ice, describe what safety measures you would take to help prevent falling through the ice (in terms of pressure).

4. What is the **air pressure** that is pushing down?