Density Practice   Name:_____

1) You are creating a box with a lid out of ¼" birch plywood. The box is 4 feet by 3 feet
   and 2 feet tall. The density of birch plywood is 0.021 lbs/in³. How much will the
   finished box weigh?

2) A 55-gallon drum is 33" tall and made out of 18-gauge steel. The diameter of the steel
   drum is 23.5". 18-gauge steel is 0.05" thick and steel weighs about 490 lbs/ft³. What is
   the weight of the empty drum?

3) A plastic drum has a base diameter of 23.3". The drum is 34.8" tall. The plastic is 2.2
   mm thick and weighs 51.6 lbs/ft³. Find the weight of the empty drum.

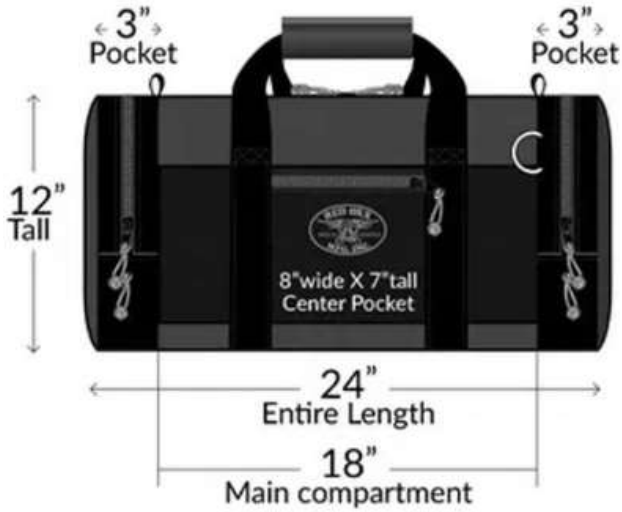Density Practice   Name:_____

4) The bag below has been designed to be constructed out of 1/16" nylon. Find the weight of the empty bag if nylon has a density of 0.041185 lbs/in³.

5) The box below is to be constructed out of 1/8" aluminum. Aluminum has a density of 2.7 g/cm³. Find the weight of the empty box.