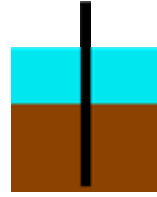


December 23 challenges

1. There is a pole in a lake. One-half of the pole is in the ground, another one-third of it is covered by water, and 8 ft is out of the water. What is the total length of the pole in ft?



2. Divide \$515 (in whole \$ increments) into a number of bags so that I can ask for any amount between \$1 and \$515, and you can give me the proper amount by giving me a certain number of these bags without opening them. What is the minimum number of bags you will require?

3. Grandpa:

"My grandson is about as many days as my son is weeks, and my grandson is as many months as I am in years. My grandson, my son and I together are 160 years. Can you tell me my age in years?"