CEDAR TREE NECK MATH (4th-7th grades)

1.) Areas of land at Cedar Tree Neck were once used as turnip and potato farms. The Daggett family planted potatoes first, and harvested them in July. They then planted turnips in alternating rows, to be harvested after the first frost. They used dead fish and seaweed as fertilizer.

Each year, they grew about 1,000 bushels of turnips and sold them for 25 cents per bushel. At that price, how much money would the Daggett family expect to make selling turnips each year?

2.) The Daggett's kept some turnips for their own use. To store them, they would dig a trench that they covered in beach grass, then soil. covered in beach grass, then soil. Pipes were placed in the soil to allow moisture to escape.

If they dug a trench 2 feet deep, 8 feet wide, and 50 feet long, what would the volume of the trench be?

3.) From the freshwater pond at Cedar Tree Neck, the Daggett family harvested 200 tons of ice each year. They used the ice in the house and to preserve fish.

If 1 ton equals 2,000 pounds, how many pounds of ice did they harvest each year?

4.) Fishing was a major source of income for the Daggett family of Cedar Tree Neck. Most fish were caught in traps. They commonly caught scup, sea trout (squeteague)--weakfish??, squid, black bass, tautog, and striped bass to sell. They also caught menhaden, goosefish, blowfish, and squid, which were considered waste fish at the time.

Each year from 1905-1910, the Daggett's caught approximately 60,000 sea trout. Each sea trout weighed 4-5 pounds each and was sold for 8-10 cents per fish. If each sea trout was sold for 9 cents, how much money would they expect to make selling sea trout in one year?

5.) During the late 1800s and early 1900s, many ships were wrecked near Martha's Vineyard. Often, the goods they were carrying would wash up on the North Shore of the island or be salvaged by islanders. Some things that the Daggett family found or salvaged were oranges, bananas, coal, lumber, candles, and army clothing.

If they found 20 pounds of oranges, 32 pounds of bananas, and 50 pounds of coal, how many pounds of materials did they find in all?