marble madness

Yin works in the marble factory. She is responsible for taking orders and shipping marbles to customers. An important part of her work is figuring out how many marbles customers are ordering so that they can be charged correctly. Fortunately, the marble factory packages its marbles by powers of 10.

Yin gets an order for 6 boxes of one million marbles, 2 boxes of ten-thousand marbles, 4 boxes of one thousand marbles and 5 boxes of ten marbles. How many marbles is this altogether?

Next, she gets an order for 3 boxes of one-hundred thousand marbles, 5 boxes of one thousand marbles, 5 boxes of one hundred marbles and 7 individual marbles. How many marbles was this order for?

Things are busy today! A huge order comes in for 8 boxes of ten million marbles, 4 boxes of one million marbles, 4 boxes of one-hundred thousand marbles, 4 boxes of one thousand marbles, and 8 boxes of ten marbles. How many marbles did the customer order?

Ugh… the orders keep coming in! This time the customer wants 9 boxes of one hundred marbles, 9 boxes of ten marbles and 3 individual marbles. What is the total number of marbles for this order?

Finally! Break time! Yin joins the rest of the factory in pouring a bunch of marbles on the floor. They then all have fun sliding around on them using a piece of cardboard. The workers use 4 boxes of ten million marbles, 2 boxes of one million marbles, 6 boxes of one hundred thousand marbles, 8 boxes of ten thousand marbles and 5 boxes of 100 marbles. How many marbles are they going to have to clean up when they get done playing?