

1. What does this message say?

GTYORJOTE OUIABGT

2. You are given a set of scales and 12 marbles. The scales are of the old balance variety. That is, a small dish hangs from each end of a rod that is balanced in the middle. The device enables you to conclude either that the contents of the dishes weigh the same or that the dish that falls lower has heavier contents than the other.

The 12 marbles appear to be identical. In fact, 11 of them are identical, and one is of a different weight. Your task is to identify the unusual marble and discard it. You are allowed to use the scales three times if you wish, but no more.

Note that the unusual marble may be heavier or lighter than the others. You are asked to both identify it and determine whether it is heavy or light.

3. Queen Elizabeth organized a royal party.

To Avoid uninvited guest royal family set a password.

Wayne (an uninvited person) plan to enter the party. He stand nearby the door.

First guest comes, the security person said 'twelve' and guest replied with six.

Second guest comes, the security person said 'six' and guest replied with 'three'.

Wayne thought is enough and he walked to the entry point. The security person said 'eight'; Wayne replied smilingly 'four'.

He was immediately thrown out of the party. Why?