Answer on Question #59849 – Chemistry – Other

Task:

How many moles are present in 1 g of gold.

Solution:

If moles=grams/molar mass, and if there are 1 g of Au (gold) and the molar mass of gold is 196.97 g/mol, then,

$$n(Au) = \frac{m(Au)}{M(Au)} = \frac{1}{196.97} = 0.005\, moles\ of\ Au.$$

Answer: 0.005 moles of Au.