Least squares means….

(1) more rounds
(2) wizard magic
(3) sum((observations – calculations)^2)

y = a + bx is a geochemical model...

(1) true, because I can fit this with 3 data points
(2) false, this is just a function
(3) maybe ?

An objective function is….

(1) a function that treats all numbers the same way
(2) at the core of an optimization problem
(3) different from a subjective function

Levenberg-Marquardt refers to…

(1) an algorithm
(2) the name of a famous painter
(3) a famous geoscientist

Propagation of uncertainties…

(1) is not very critical
(2) can be uncertain
(3) is always accurate

It is impossible to take into account errors in model fitting...

(1) Not true
(2) Not always false
(3) False

Machine learning is a fancy word meaning fitting flexible model to data

(1) True
(2) True but…
(3) The machines will take over anyway.

A machine learning model can be adjusted to data using traditional fitting methods like least square regression

(1) True
(2) No, it is a very complex field that has nothing to do with model optimization
(3) ML models do not necessarily need data, so… ?