

Probability Models

* Predicting probability based on observations

Daria took a random sample of rocks and counted 58 sedimentary rocks, 213 metaphonic rocks, and 522 igneous rocks. create a probability Model.

Model:

Type of Rock	Estimated Probability
Sedimentary	.07
Metaphonic	.27
Igneous	.66

① Total Rocks: $58 + 213 + 522 = 793$

② Find probability of choose each rock.

$$\frac{58}{793} = .07 \quad \frac{213}{793} = .27 \quad \frac{522}{793} = .66$$

③ All probabilities should have a sum of 100%