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# 1.2.3 Quiz: Probability as a Function of Ability

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## Question 1 (External resource) (1.0 points possible)

The problem was:

Consider a particular geography question with item response function $P(\theta)$.

What does $P(0) = 0.25$ mean? Match with the best translation.

You selected:

○ The probability that someone with average ability in world geography answers the question correctly is 25%.

✔ Correct

[ Try Again ]

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## Question 2 (External resource) (1.0 points possible)

Suppose Avi has ability level $A$ and Blaise has ability level $B$ in world geography. Consider a particular geography question with probability function $P(\theta)$. What do each of the following function statements mean? Match each with the best translation.

P(A)=1

You selected:

Avi is definitely going to get the question right.

✔ Correct

P(A)=0.5

You Selected:

Avi has a 50-50 chance of getting the question wrong.

✔ Correct

## Question 3 (External resource) (1.0 points possible)

You have used 1 of 2 attempts on this problem! To try again, click the "Try again" button below.

The problem was:

Suppose a young child with no formal education (very low $\theta$ value) takes the World Geography quiz.

For the question "True or False: Volcanoes exist only on dry land", which of the options below best describes $P(\theta)$?

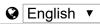You selected:

○ $P(\theta) = 0.5$

✔ Correct

[ Try Again ]

You have used 1 of 2 attempts.

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