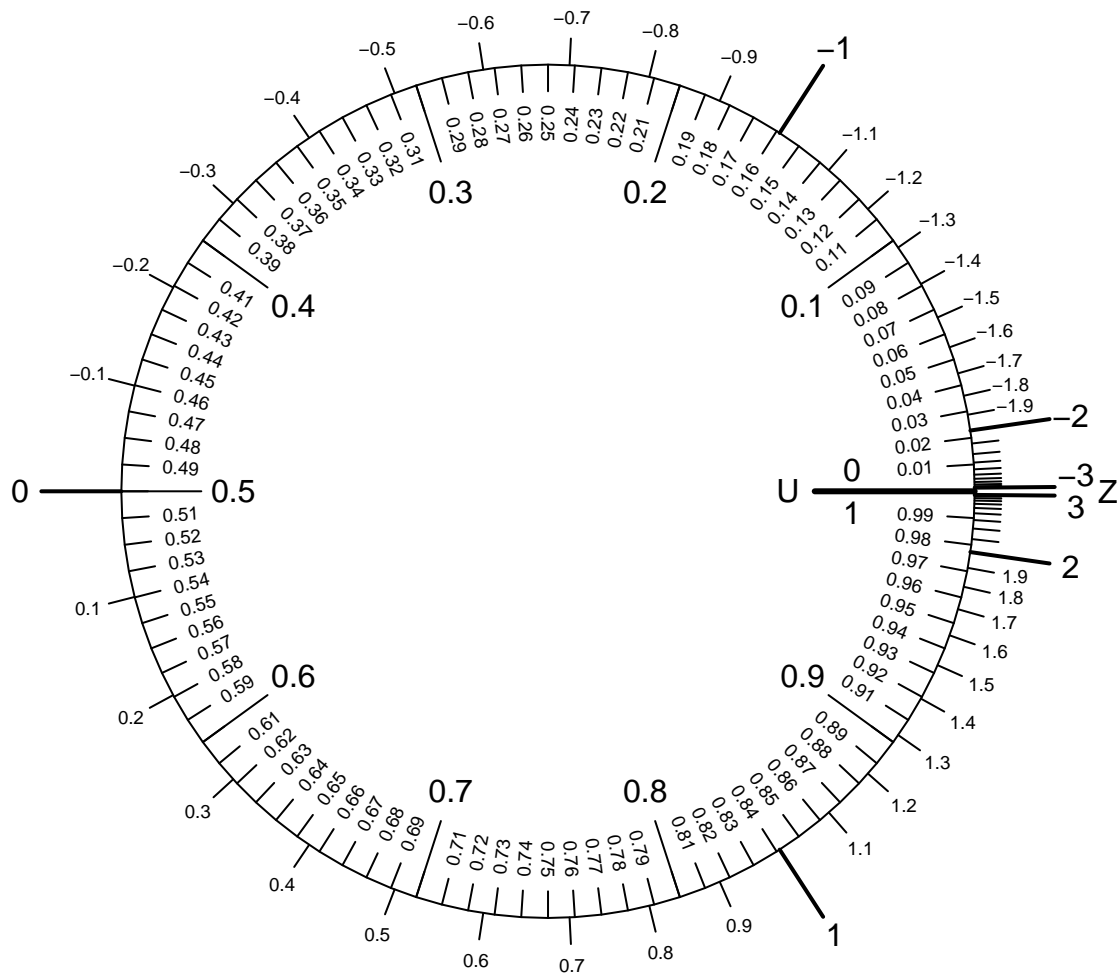


## Question

The spinner below has two distributions. The outer distribution ( $Z$ ) is the standard normal distribution. The inner distribution ( $U$ ) is the standard uniform distribution, which also corresponds to the percentile. To answer the questions below, assume the spinner is equally likely to land in any direction.



## Answerlist

- Evaluate  $P(Z < -0.8)$
- Evaluate  $P(|Z| > 0.5)$
- Determine  $z$  such that  $P(|Z| > z) = 0.56$
- Evaluate  $P(|Z| < 1.5)$
- Determine  $z$  such that  $P(|Z| < z) = 0.9$
- Evaluate  $P(Z > -0.3)$
- Evaluate  $P(-0.4 < Z < 0.2)$
- Determine  $z$  such that  $P(Z > z) = 0.1$

- Determine  $z$  such that  $P(Z < z) = 0.66$

## Solution

### Answerlist

- $P(Z < -0.8) =$
- $P(|Z| > 0.5) =$
- $z =$
- $P(|Z| < 1.5) =$
- $z =$
- $P(Z > -0.3) =$
- $P(-0.4 < Z < 0.2) =$
- $z =$
- $z =$

## Meta-information

extype: cloze exclosetype: string|string|string|string|string|string|string|string|string exsolution:  $P(Z < -0.8) =$   |  $P(|Z| > 0.5) =$   |  $z =$   |  $P(|Z| < 1.5) =$   |  $z =$   |  $P(Z > -0.3) =$   |  $P(-0.4 < Z < 0.2) =$   |  $z =$   |  $z =$   exname: UZ extol: 0.01