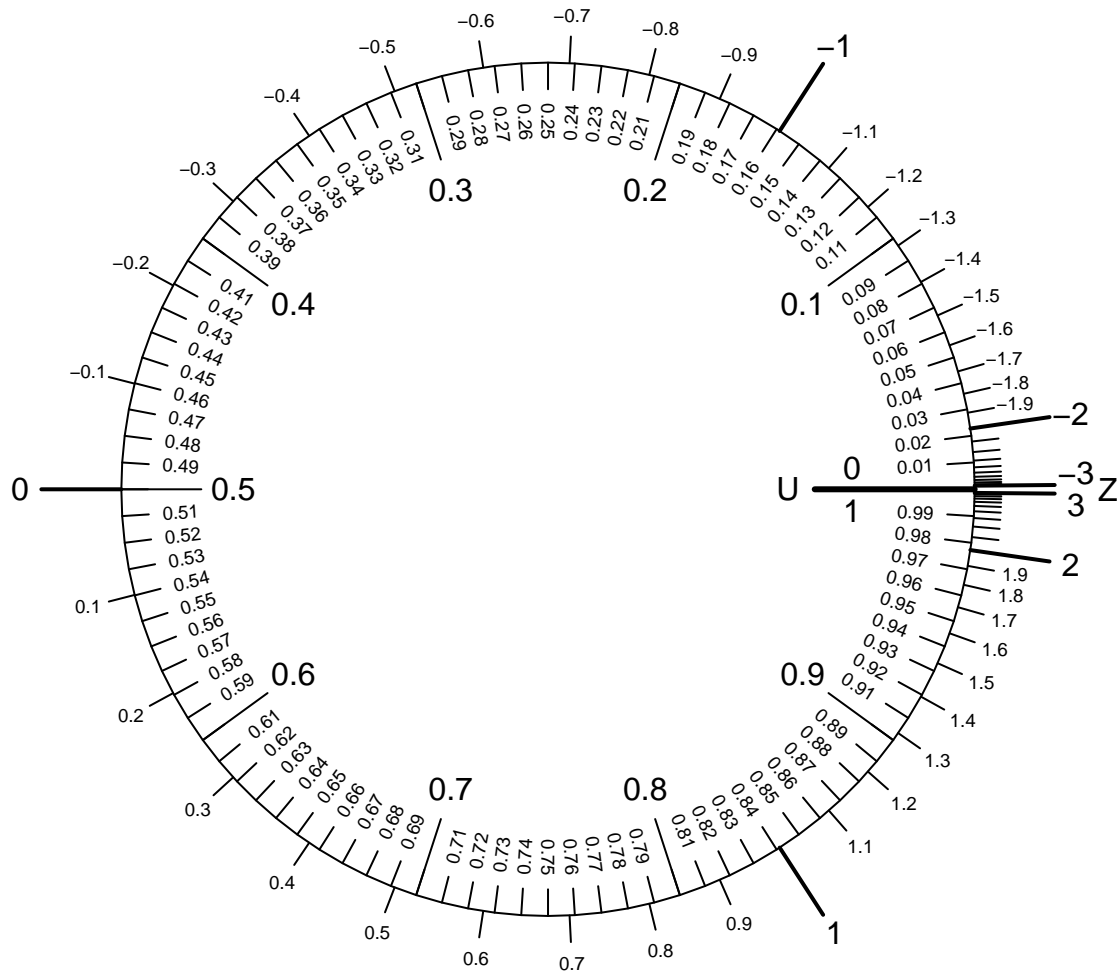


## Question

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  $P(Z < 0.5)$
- Determine  $z$  such that  $P(Z < z) = 0.22$
- Evaluate  $P(Z > 0.2)$
- Determine  $z$  such that  $P(Z > z) = 0.33$
- Evaluate  $P(-1.6 < Z < 1.4)$
- Evaluate  $P(|Z| < 0.4)$
- Evaluate  $P(|Z| > 0.9)$
- Determine  $z$  such that  $P(|Z| < z) = 0.88$

- Determine  $z$  such that  $P(|Z| > z) = 0.7$

## Solution

### Answerlist

- $P(Z < 0.5) =$
- $z =$
- $P(Z > 0.2) =$
- $z =$
- $P(-1.6 < Z < 1.4) =$
- $P(|Z| < 0.4) =$
- $P(|Z| > 0.9) =$
- $z =$
- $z =$

## Meta-information

extype: string exsolution: yo exname: UZ extol: 0.01