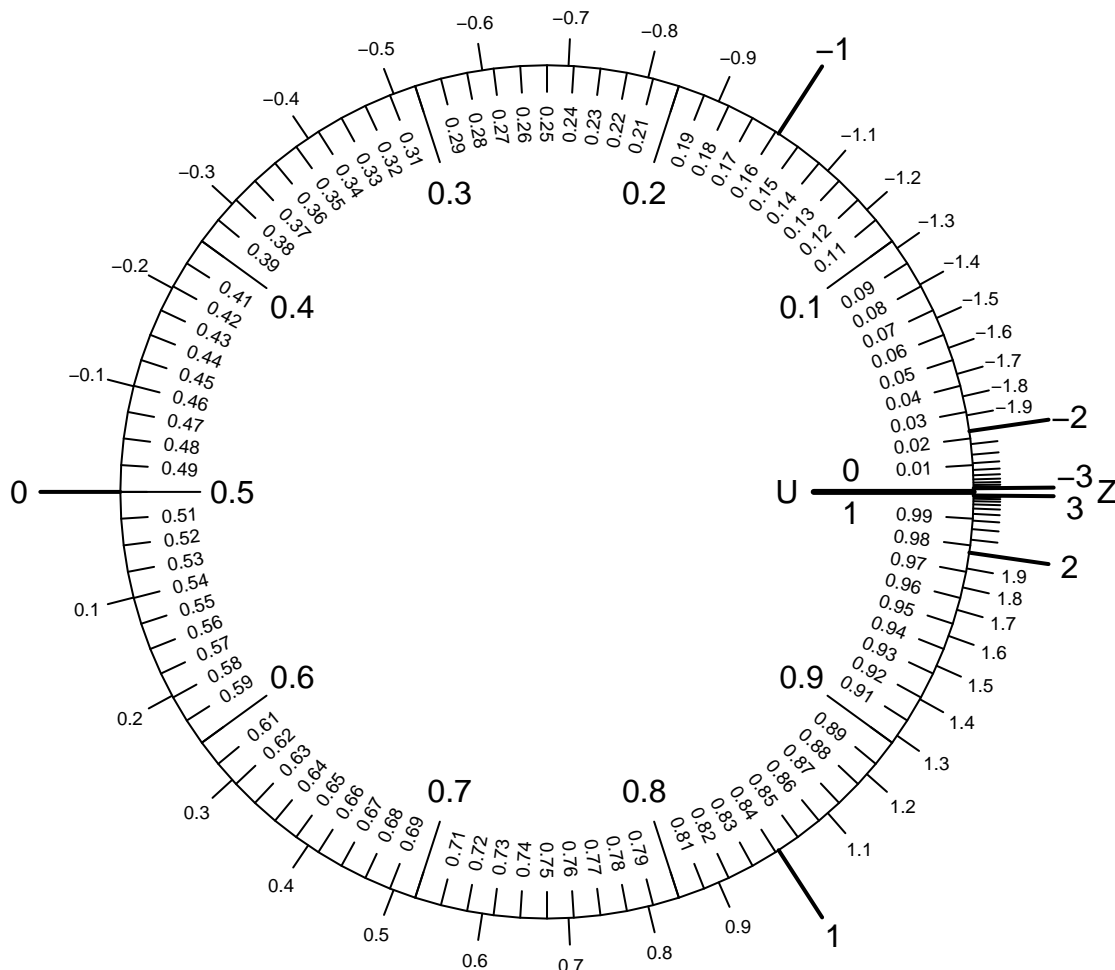


## Question

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  $P(0.5 < Z < 1)$ . \* What is the probability that  $Z$  is more than 1.6? In other words, determine  $P(Z > 1.6)$ . \* What is the probability that  $Z$  is less than -0.2? In other words, determine  $P(Z < -0.2)$ . \* Determine  $z$  such that  $P(Z > z) = 0.63$ . \* Determine  $z$  such that  $P(Z < z) = 0.7$ .

## Solution

### Answerlist

- $P(0.5 < Z < 1) =$
- $P(Z > 1.6) =$
- $P(Z < -0.2) =$
- $z =$
- $z =$

## Meta-information

extype: cloze exclosetype: string|string|string|string|string exsolution:  $P(0.5 < Z < 1) = \boxed{0.15}$  |  $P(Z > 1.6) = \boxed{0.055}$  |  $P(Z < -0.2) = \boxed{0.421}$  |  $z = \boxed{-0.33}$  |  $z = \boxed{0.52}$  exname: UZ extol: 0.01