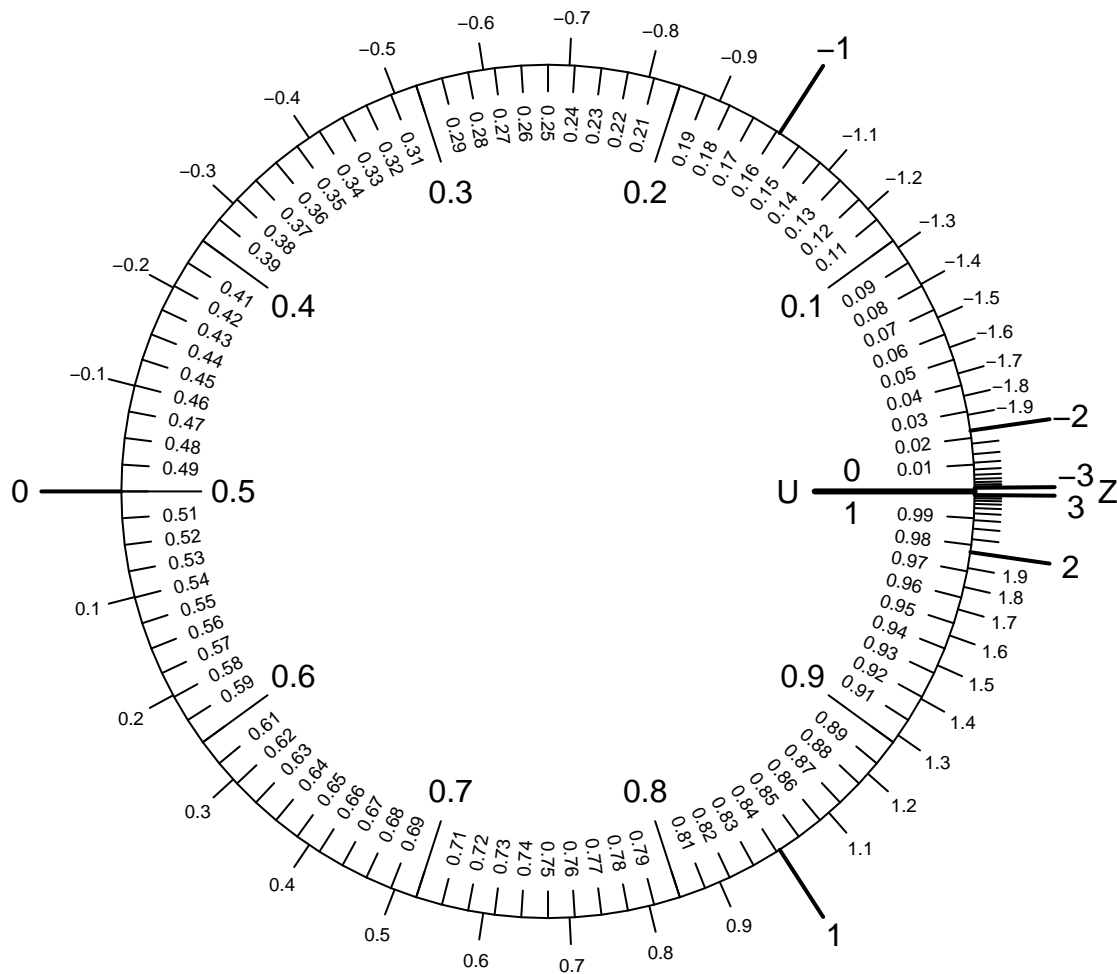# Question

The spinner below has two scales. The outer scale ($Z$) is the standard normal distribution. The inner scale is the standard uniform distribution, which also corresponds to the percentile.



## Answerlist

- What is the probability that $Z$ is less than 0.3? In other words, determine $P(Z < 0.3)$.
- Determine $z$ such that $P(Z < z) = 0.16$.
- What is the probability that $Z$ is more than -0.2? In other words, determine $P(Z > -0.2)$.
- Determine $z$ such that $P(Z > z) = 0.37$.

# Solution

## Answerlist

- $P(Z < 0.3) = \boxed{0.618}$

- $z = \boxed{\text{-0.99}}$
- $P(Z > -0.2) = \boxed{0.579}$
- $z = \boxed{0.33}$

## Meta-information

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