**Question 1a**

> summary(Loblolly$height)

Min. 1st Qu. Median Mean 3rd Qu. Max.

3.46 10.47 34.00 32.36 51.36 64.10

**Question 1b**

> IQR(Loblolly$height)

[1] 40.895

**Question 1c**

> boxplot(Loblolly$height, horizontal=TRUE, xlab="Heights")

A screenshot of a social media post

Description automatically generated

There are no outliers

**Question 1d**

> hist(Loblolly$height, xlab="Heights", ylab="Number of Observations")

A screenshot of a cell phone

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**Question 1e**

> mean(Loblolly$height)

[1] 32.3644

> sd(Loblolly$height)

[1] 20.6736

> qnorm(p=0.95, mean=32.3644, sd=20.6736)

[1] 66.36945

> qnorm(p=0.05, mean=32.3644, sd=20.6736)

[1] -1.640646

Therefore, the 90% CI is [-1.64, 66.37]

**Question 1f**

False

**Question 2a**

> pnorm(q=27, mean=25, sd=6) - pnorm(q=18, mean=25, sd=6)

[1] 0.5088862

**Question 2b**

> qnorm(p=0.7352, mean=25, sd=6)

[1] 28.7717

**Question 3**

> digits = seq(from=1, to=6, by=1)

> hist(replicate(100, mean(sample(digits, 10, replace=TRUE))), main="", xlab="Digits", ylab="Number of Observations")

A screenshot of a cell phone

Description automatically generated

The distribution is approximately normal