

Business Statistics

MGT 233

Contact Information

on Konecny
Center 249W

Hours:

10:15-11:05, 2:00-3:00,

10:15-11:05

865-8366

konecny@unk.edu

or <http://management.unk.edu/>

Required Course Materials

Statistics for Business and Economics,
10e, 11e, or 12e editions,
Anderson, Sweeney, Williams (Southwestern)
- Do not purchase any international version

Hand-held calculator with scientific
functions (e^x , log, \sqrt{x} , $x!$)
Access to Microsoft Excel 2013

Course Performance Evaluation

Each student is responsible for all assigned material and material presented in class. It is understood that material that is neither contained in nor listed in this proposed course outline, reserves the right to introduce or delete this proposed course outline. Grade assignments correspond to standard UNK policy.

400 points : 4 examination: 100 points
100 points : homework and quiz average

500 points total
(see the class syllabus for homework)

Contact Information

Dr. Ron Konecny
West Center 249W

Phone: 865-8366
email : konecnyr@unk.edu
website:<http://management.unk.edu/>

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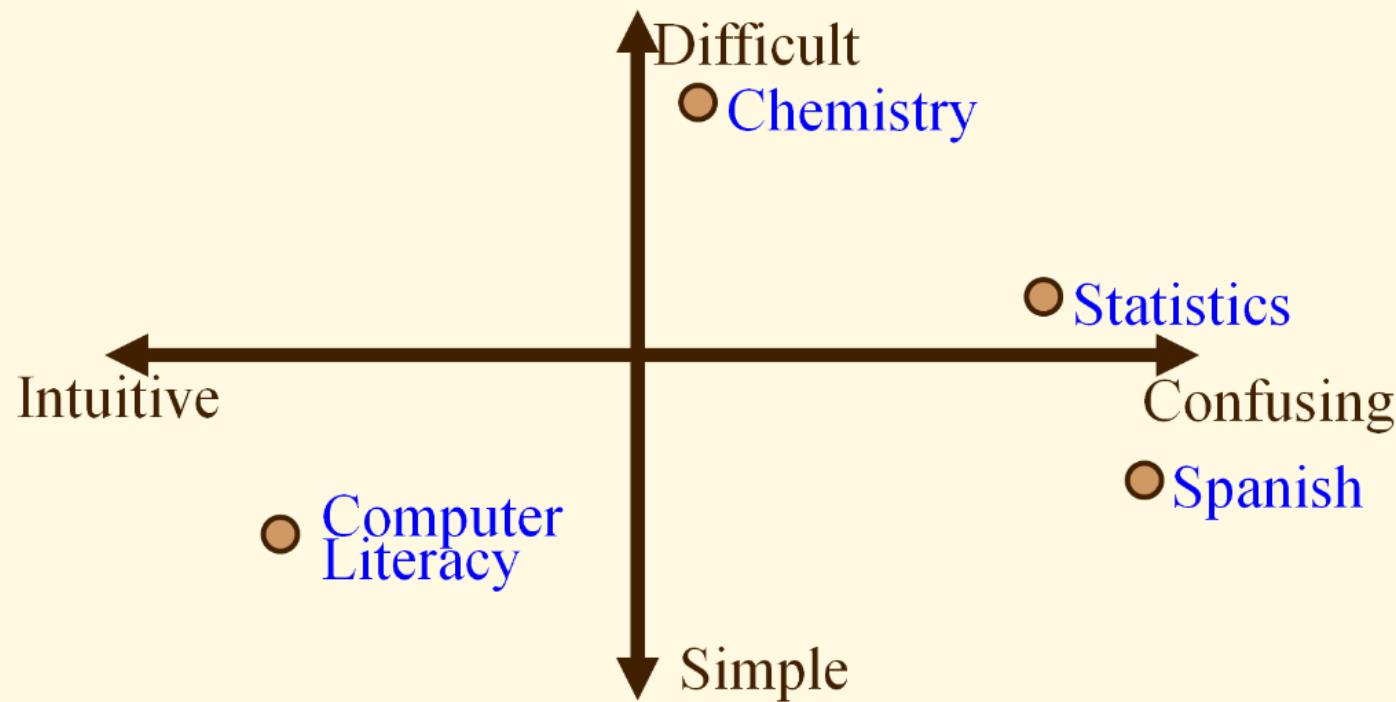
500 points total

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-How do I get an

A?

Course Perception Given Student Study Habits



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So, Why should you take Business Statistics?

Who has the burden of proof?

What is truth?

How do you know? Where is the proof?
How close is true enough?

What is the difference between lies and deception?

Freakonomics



Business Statistics is really an ETHICS course
with mathematics tacked in to confuse students

Who has the burden of proof?

What is truth?

How do you know?

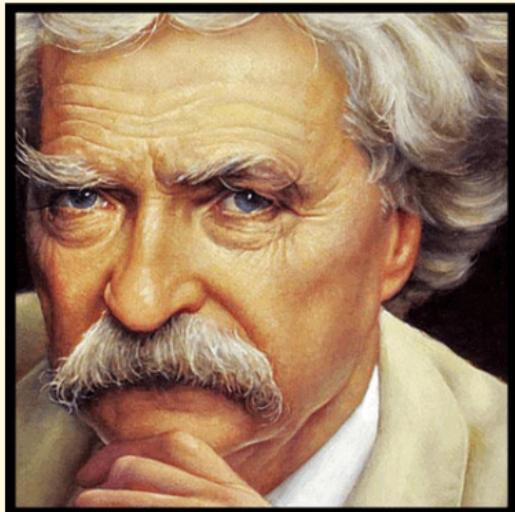
Where is the proof?

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"There are three kinds of lies:
lies, damned lies, and statistics."

Mark Train

Chapter 1

What is Statistics?

A scientific discipline concerned with:

- the collection, analysis, and interpretation of quantitative and qualitative data,

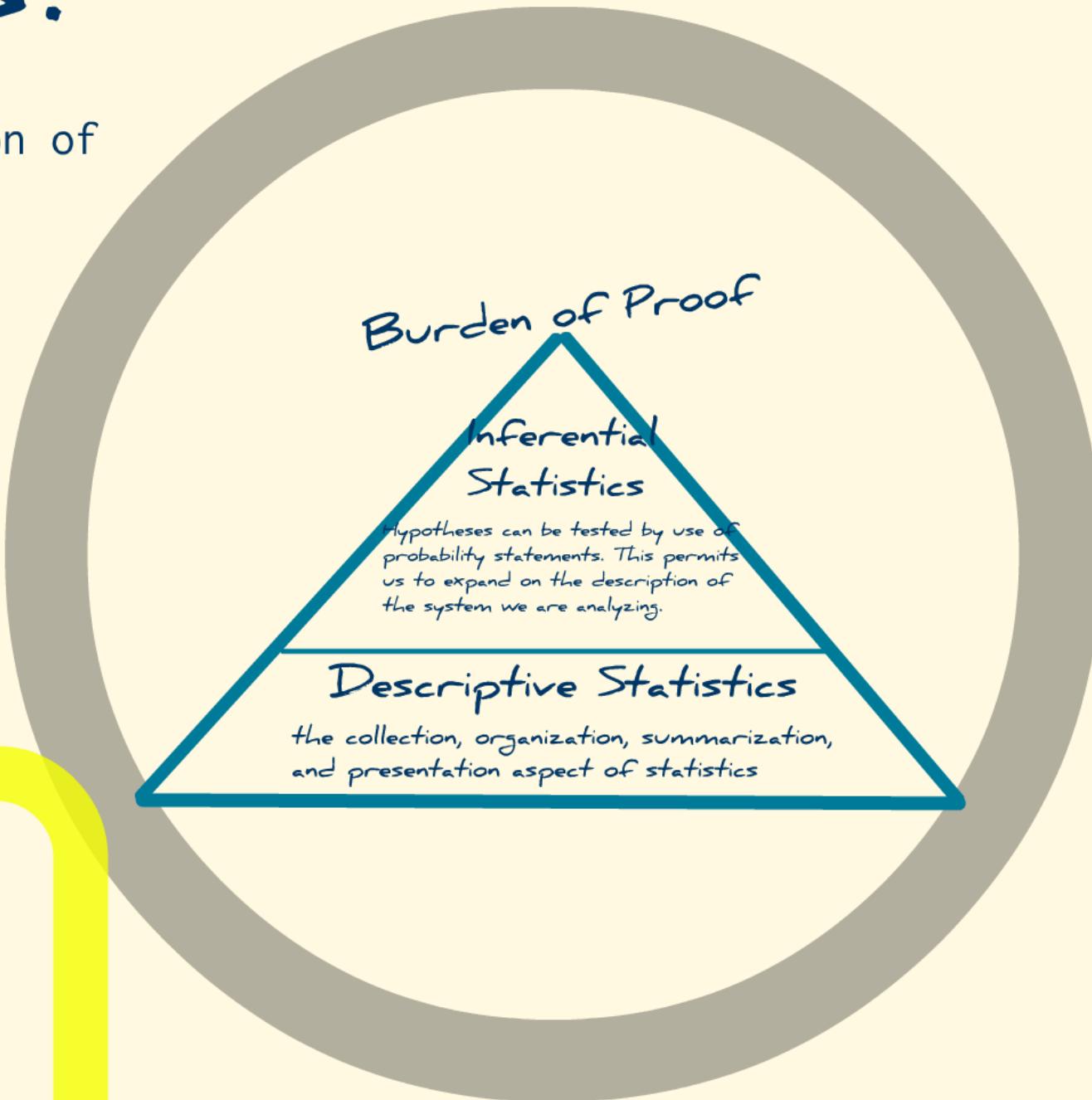
What is Statistics?

A scientific discipline concerned with:

- the collection, analysis, and interpretation of quantitative and qualitative data,
- such that, inferences involving such data
- can be objectively evaluated in terms of probability statements.

istics!

with:
interpretation of
data,
such data
in terms of



- can be
probable

Scientific Method

Principles and procedures for the systematic pursuit of knowledge involving

- the recognition of a problem and the formulation of a hypothesis,
- the collection of data through observation and experiment, and
- the testing of the hypothesis.

UNK Sportswear



Wrong Approach
Facts
Understanding
Retention

Correct Approach
Widening
Understanding
Facts
Knowledge

Week 1 Assignment
Read Pages 145

les

Interval Data

Wrong Approach

-Facts

-Understanding

-Wisdom

Con

Correct Approach

-Wisdom

-Understanding

-Facts

-Knowledge

ment

Data Scales

Nominal Data

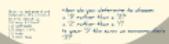
Mutually exclusive and exhaustive categories, distinguish one object or event from another object or event (Qualitative)



Qualitative
Data
(quality)

Ordinal Data

Mutually exclusive and exhaustive categories, ranked and ordered so that position has an interpretable and significant meaning (Qualitative)



Quantitative Data
(quantity)
measureable

Interval Data

Mutually exclusive and exhaustive intervals (sets of groups) of continuous or discrete values.

- A constant unit of measure
- zero is arbitrarily defined

Interstate mile markers; unit of miles since it was
set at a arbitrary KCF point in
unit of days, zero is the
birth of Jesus

Ratio Data

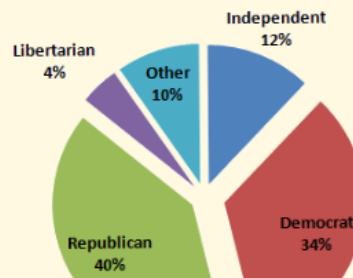
same as Interval Data plus
• zero is absolutely defined

Checking balance:
Credit hours passed:
Gas tank:

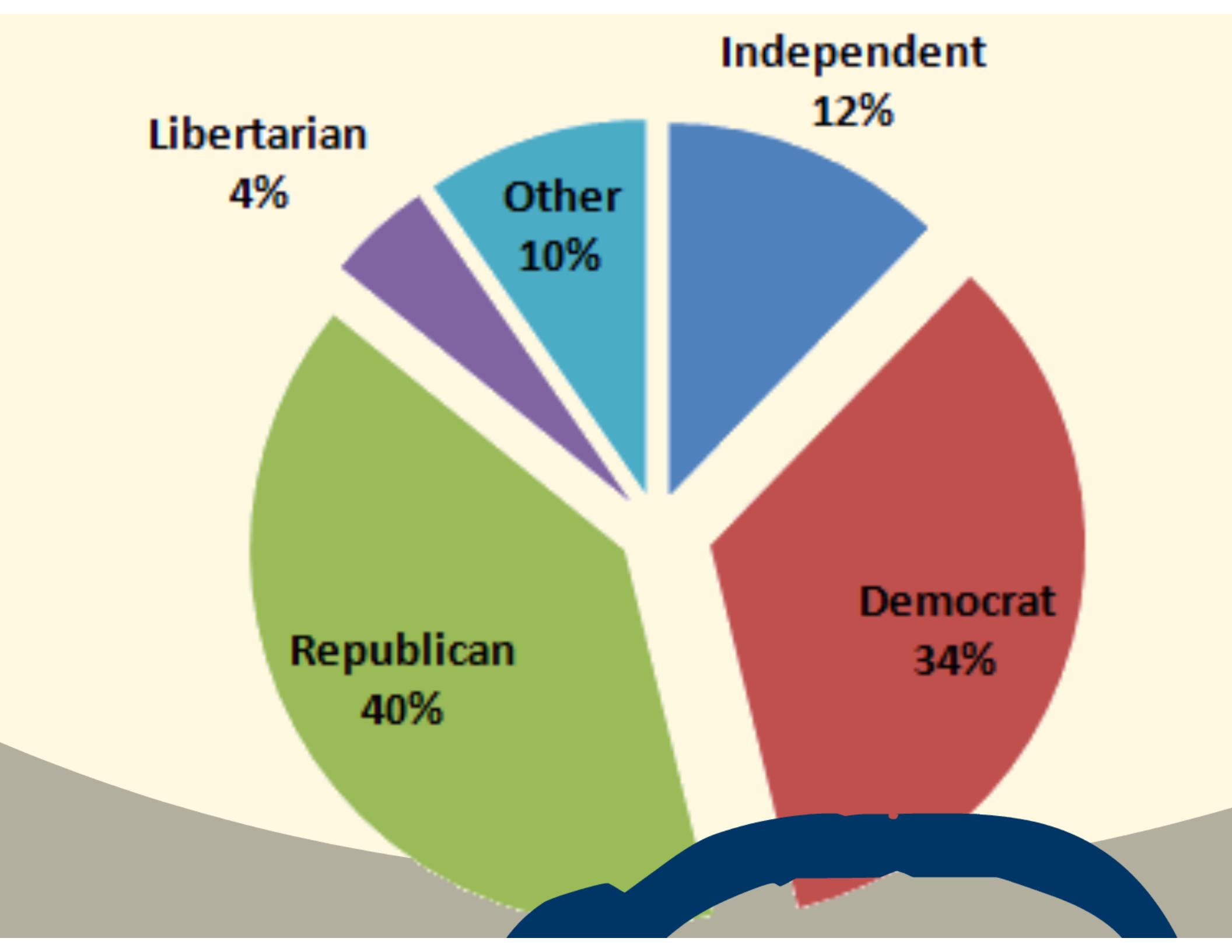
unit of dollars, zero is bad news
unit of credit hours, zero an
unit of gallons, zero is time to walk

Nominal Data

Mutually exclusive and exhaustive categories, distinguish one object or event from another object or event (Qualitative)



Qualitative +



Ordinal Data

Mutually exclusive and exhaustive categories, ranked and ordered so that position has an interpretable and significant meaning (Qualitative)

Given my background and interests, the material in this course is:
(5) very difficult
(4) difficult
(3) about right
(2) easy
(1) very easy

How do you determine to choose:
a '3' rather than a '2'?
a '2' rather than a '1'?
Is your '3' the same as someone else's '3'?

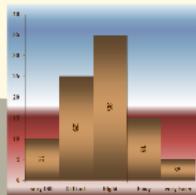


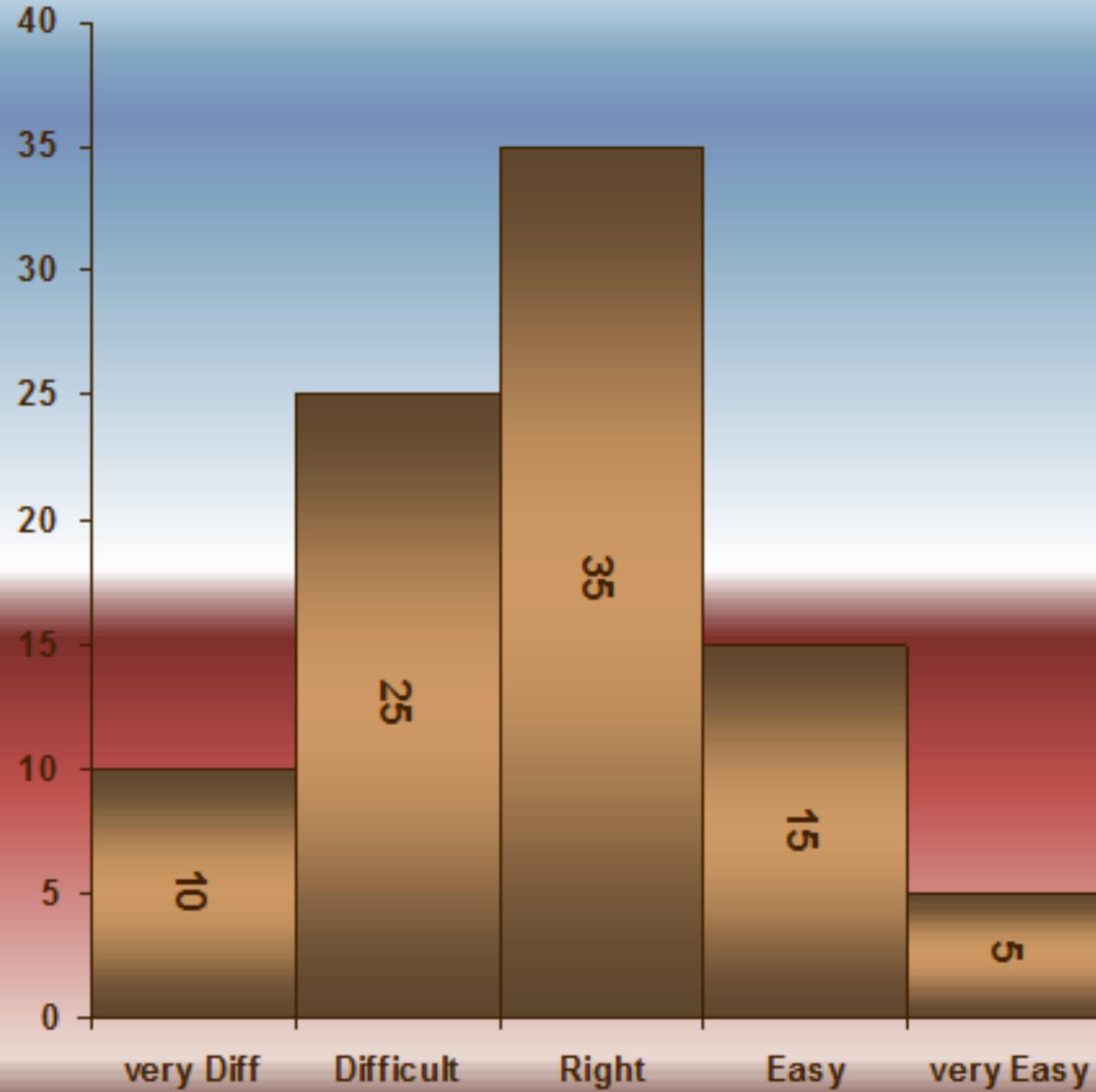
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interstate mile markers: unit is miles, zero is West
temperature: unit is degrees K,C,F; zero is ...
calendar: unit is days, zero is the birth of Jesus

or discrete values.

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Gas tank:

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