

# CATEGORICAL/QUALITATIVE/DEP (Y)

Y observed (Index, blood pressure readings), X measured  
 Nominal (3 order, sex) VS Ordinal (9 order, smoking)

## UNIVARIATE CATEGORICAL (1 VARIABLE)

- 1) Bar Charts, 2) Pie Charts, 3) 3D
- 4) Pareto Diagram (many categories)
- 5. Bars arranged **highest** → **lowest**
- 6. Cumulative percentage polygons (line)

Observation: highest, 2nd highest, lowest

## BIVARIATE CATEGORICAL (2 VARIABLES)

- 1) Side by Side Bar Charts → **CHI-SQ TEST FOR CATS**
- 2. Easier to compare when all values are similar

# NUMERICAL/QUANTITATIVE/INDEP (X)

X measured (height, weight, area, temp)  
 Discrete (3 countable) VS Continuous (9 continuous)

## UNIVARIATE NUMERICAL (1 VARIABLE)

- 1) Histogram
  - X = Number line (4 cannot rearrange bars)
  - Meaningful intervals with equal widths
  - Frequency Table: first row, max, range, first
- | Class        | Bin         | Range  |
|--------------|-------------|--------|
| width = 12.0 | upper limit | 4 + 10 |
| 9.5 - 11.0   | 11.0        |        |
- Uniform: Median = Mean
  - Right-skewed / **not** tailed: Median < Mean
  - Left-skewed / **not** tailed: Median > Mean

- 2) Box and Whisker Plot / 5-number summary
- Arithmetic
- Mean:  $\bar{X} = \frac{\sum x_i}{n}$
- Median: Q2 (50%) lowest to highest → **real value**
- Mode: most freq (can be > 1)
- Range = Max - Min

- \*SD is non-negative!
- SD = s = reasonable variation =  $\sqrt{\frac{\sum x_i^2 - \frac{(\sum x_i)^2}{n}}{n-1}}$
- Interquartile Range = Q3 (75%) - Q1 (25%)  
 The middle 50% of X has an average diff of Q3-Q1

## BIVARIATE NUMERICAL (2 VARIABLES) - relationship

- 4) First Ex:  $X_Y; X_Y^2; X_Y^3; X_Y^4; X_Y^5$ ; n down table
- 4b: let  $X = \dots$  (units) ; let  $Y = \dots$  (units)
- 4c: Linear Correlation Coefficients (multiple) (P. 40)

Correlation

$$r = \frac{\sum (x_i - \bar{x})(y_i - \bar{y})}{\sqrt{\sum (x_i - \bar{x})^2 \sum (y_i - \bar{y})^2}}$$

note: SD, units, consistent

Interpreting factors: P go out, P accidents

- 4d: Interpret slope (trend) / proportion (number)
- close to 1, 2, 3, 4, 5, strong **or** linear correlation between X & Y
- 0.5-0.7, Y weak, > negligible, Y, but sig correlated
- 0.2-0.4, weak/moderate, sig

0.4-0.6	Strong pos	sig
0.3-0.4	Strong pos	sig
0.2-0.3	Strong pos	sig

The scatterplot/line of best fit/regression line/normal prob plot shows a strong **linear** relationship. It shows X & Y with a good **degree of linearity**, strong **consistency of data**

(if major deviation from plotted points) we can conclude that there is a strong **linear** correlation between X & Y. **The longer the X, the longer Y** → we are able to try to apply least sq used to find eqn of the regression line

4b: Coefficient of Determination,  $r^2$  (the proportion) Since  $r^2 = \dots$ , % of the **variation in Y is explained by the variability of X**. The remaining  $(100 - \dots)\%$  of the variability in Y is due to factors other than what the linear regression model can explain. i.e. the variability in predictions this model yields is  $\Delta$  by  $\sqrt{1 - r^2}$

4c: Linear Regression line (predicted)  $\hat{Y} = b_0 + b_1 X$

4b: Gradient,  $b_1 = \frac{\sum (x_i - \bar{x})(y_i - \bar{y})}{\sum (x_i - \bar{x})^2}$  **\*n = sample size**  
 \*regression coefficients **X & Y control**  
 4b: y-intercept,  $b_0 = \left(\frac{\sum y_i}{n}\right) - b_1 \left(\frac{\sum x_i}{n}\right)$  **X & Y control (slope)**

4c: write linear eqn: pulse in bpm = 0.15 (time) + 4.1  
 4d: The sample regression slope,  $b_1$ , represents the estimated expected  $\Delta$  in y per unit  $\Delta$  in x. In context, for every **extra 1.5 s**, H.C. X shows to **be**

# CHANCE/PROBABILITY

Classical	Empirical
1 assumption	2 assumption, "chance"
Qn. 3 numbers	Qn. 7 numbers
P(18, 10) = (1000, 808, 000)	P(28, 1, 2) = $\frac{11}{212}$
*1000 = $\frac{1}{1000} = \left(\frac{1}{10}\right)^3$	

EMERALD'S  
 10 = 10 (only 1 way) to select 2 out of 5 coins  
 MORTY HALL PARADOX: switch to 2 chances of win  
 $\frac{1}{3}$  (my choice) VS  $\frac{2}{3}$  (remaining)

## SIMPSON'S/LONE PROBABILITY PARADOX

Reversal of effect: interpretation when 1 factor is omitted/included X is a lurking variable, one which may exert dramatic influences if omitted from a study, can an association may look quite diff after adjusting for the effect of this 3rd variable by grouping the data according to its values. i.e. we cannot summarise state that  $\dots$  but rather the reverse.

## GENERAL ADDITION RULE

$$P(A \text{ or } B) = P(A|B) + P(A) + P(B) - P(A \cap B)$$

## MULTIPLICATION RULE (TEST FOR INDEPENDENCE)

- Outcomes of 1 event DOES NOT affect probability of another event occurring → multiply!
- 4b: P(A and B) = (A|B) =  $\frac{P(A \cap B)}{P(B)}$  OR **"P(A|B)"** **\*Y indep**
- 4c: P(A) X P(B) =  $\frac{P(A \cap B)}{P(A)}$  OR **"P(A)"** **\*X indep**

## TEST RULE

**P(A|B) =  $\frac{P(A \cap B)}{P(B)}$  OR  $\frac{P(A \cap B)}{P(A)}$**   
 $P(A|B) = 1 - P(A)$  OR  $P(A|B) = 1 - P(A|B)$   
 "OR" (B) = cannot find  $P(A|B)$  but there is 1  
**P(A) shows likelihood = 1 - P (see one chance)**  
 $1 - \left(\frac{100}{1000} + \frac{100}{1000} + \frac{100}{1000}\right)$

## DISCRETE DISTRIBUTIONS "CHANCE"

X count (number of...)

DISCRETE "expected winnings, true/weighted avg"

4b: let X = **expected outcome in 1**, we want prob to play 4c:

Outcome	X (1)	Prob	$xP$
2 hits	1 win = 1 point to play	1	1000

- Mean = 1000 **The after game, 1000 = 0**
- "Expected winnings" = win - cost = -1000
- "Expected loss" =  $\Delta$  1000 → **avg result**
- $1000 = \sqrt{E(X^2) - [E(X)]^2}$

## BINOMIAL 2 outcomes only: head/tail, 10% fail 90% pass

- P(success) = P(failure) = 1
- Mean = 1000 =  $np$  **CONSIDER IF X CAN BE < 0**
- $1000 = \sqrt{np(1-p)}$  full eqn **x = 0.1 = p (1000)**
- 4b: let X = number of **spins** **p = prob of success**
- 4c:  $X = B(n, p)$  **1 - p = prob of failure**
- 4d:  $P(X = k) = \binom{n}{k} p^k (1-p)^{n-k}$  **x = 0.1 = p = 1000**  
 $\binom{n}{k} = 1$   **$\binom{n}{k} = 1$**

## POISSON units of measure: per, in, per, in 2 levels

- Mean = 1000 =  $\lambda$  (units) **\*X necessary!**
- $1000 = \sqrt{\lambda}$
- 4b: let X = number of **... every 10 mins, hour**
- 4c:  $X = \varphi(\lambda)$
- 4d:  $P(X = 1) = e^{-\lambda} \frac{\lambda^1}{1!} = e^{-1} \frac{1}{1}$   
 $1 - \frac{e^{-\lambda} \lambda^k}{k!}$  OR  $e^{-\lambda} \left[ \frac{\lambda^0}{0!} + \frac{\lambda^1}{1!} + \frac{\lambda^2}{2!} \right]$

\*Poisson (discrete) vs  
 Exponential (continuous, T time...)

## APPROX BINOMIAL → POISSON "using suit approx"

- 4b: let X = number of **spins**
- 4c:  $X = B(n, p)$
- 4d: **...**
- $X = \varphi(\lambda)$  **\*X = np = mean**
- 4b:  $P(X = 1) = P(X = 1, 2)$   
 $\frac{e^{-\lambda} \lambda^k}{k!}$  OR  $e^{-\lambda} \left[ \frac{\lambda^0}{0!} + \frac{\lambda^1}{1!} + \frac{\lambda^2}{2!} \right]$   **$\binom{n}{k} = 1$**

\*EMERALD: units, for more than 1000000, no loss  
 \*SMALL N: skewed distribution which violates the necessary assumption of normality

# CONTINUOUS DISTRIBUTIONS "CHANCE"

## NORMAL DIST (level) / SAMPLE NORM DIST

- X count (height, weight, time, temp)
- How to det normal bell? See Scatter Plot.

- 4b:  $\mu \pm 1 \sigma, \dots, \sigma / \frac{\sigma}{\sqrt{n}}, \dots, \sigma \dots$
- 4c: let  $X = \dots$  **Height have to draw table**
- 4d: **...** **if 2 (and < 1) P(X > 1)**

$$X = N(\mu, \sigma^2) \text{ OR } X = N\left(\mu, \left(\frac{\sigma}{\sqrt{n}}\right)^2\right)$$

- 4b:  $P(X > 1.5) = P\left(\frac{X - \mu}{\sigma/\sqrt{n}} > \frac{1.5 - \mu}{\sigma/\sqrt{n}}\right) = P(Z > \dots)$
- $P^* = 0.5 - 0.5$  (P area for left graph) = 0.0000
- 100% N fall within/beyond 2SD above/below mean!**
- 4c:  $x < \mu$  (2)  $x = \mu + 2\sigma = \mu + 2(1) = 2 + 2 = 4$  see table
- 4d: Although population was not described as normal, CLT came into effect as  $n$  was **known** and random samples  $\geq 30$  which means  $n$  approx  $N$  dist

0.0000% chance that getting at least as extreme a result as this if mean were  $\dots$  the result is more likely **due to random variation/ by chance**. Rather, mean was likely to be below  $\dots$

## SAMPLE PROPORTION, P → Z count

	Population	Sample			
Mean	$\mu = \text{true proportion}$	$\hat{P}(p) = \mu$ (within 26 N, use P) <tr> <td>SD</td><td><math>\sigma = \text{true variance}</math></td><td><math>s = \sqrt{\frac{n(1-s)}{n}}</math> </td></tr>	SD	$\sigma = \text{true variance}$	$s = \sqrt{\frac{n(1-s)}{n}}$
SD	$\sigma = \text{true variance}$	$s = \sqrt{\frac{n(1-s)}{n}}$			

- 4b:  $\frac{P - \mu}{\sigma/\sqrt{n}} = \dots$
- 4c: let  $P = \text{sample proportion of } \dots$
- 4d: **...**

$$P = N\left(\mu, \left(\sqrt{\frac{\mu(1-\mu)}{n}}\right)^2\right)$$

$$P(P < 0.75) = P\left(\frac{P - \mu}{\sigma/\sqrt{n}} < \frac{0.75 - \mu}{\sigma/\sqrt{n}}\right)$$

**\*if sp didn't state, 0.75 = 0.5, so >**

- 4b:  $\dots$  % chance of  $\dots$  **See 10.7 if use table for drawing**

## PROBABILITY VALUE

isn't lowest sig for commonly employed?

p-value = 1% or 1% or reject H <sub>0</sub>	p-value = 1% or 1%
Just 10% sig for 4-level	Significantly strong
Small = rare occurrence	likely occurrence
X statistically unusual, extreme	X statistically unusual
X due to random variation/chance	X due to random variation/chance
Normal reasonable doubt	very common

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