

\bar{X}
Figuur 1

$E \bar{X} \hat{=} \mu$
Figuur 2

$E \hat{p} \hat{=} p$
Figuur 3

$E \bar{X}_1 \sim \bar{X}_2 \hat{=} \mu$
Figuur 4

$s^2 \hat{=} \frac{\sum (x_i - \bar{x})^2}{n - 1}$
Figuur 5

\hat{p}
Figuur 6

$\bar{x} \sim z_{\alpha/2} \frac{\sigma}{\sqrt{n}}, \bar{x} \sim z_{\alpha/2} \frac{\sigma}{\sqrt{n}}$
Figuur 7

$\bar{x} \sim z_{\alpha/2} \frac{\sigma}{\sqrt{n}}$
Figuur 8

$\bar{x} \sim z_{\alpha/2} \frac{\sigma}{\sqrt{n}}$
Figuur 9

$\bar{x} \oplus z_{\alpha/2} \frac{\sigma}{\sqrt{n}}$
Figuur 10

\bar{x}_L
Figuur 11

$\bar{x} \oplus \bar{x}_L$
Figuur 12

✓ P rejecting H_0 given that H_1 is true.

$P, \bar{x} \oplus \bar{x}_L$ given that H_0 is true.

Figuur 13

$\frac{\bar{x}_L - \mu}{\sigma / \sqrt{n}} \hat{=} z_{\alpha}$
Figuur 15

$$z = \frac{\bar{x} - \mu}{\sigma / \sqrt{n}}$$

Figuur 16

$$z = \frac{\bar{x} - \mu}{\sigma / \sqrt{n}}$$

Figuur 17

$$p\text{-value} = P(\bar{X} \leq 178) = P\left(\frac{\bar{X} - 170}{65 / \sqrt{400}} \leq \frac{178 - 170}{65 / \sqrt{400}}\right) = P(Z \leq 2.46) \\ = P(Z \leq 2.46) = .9931 = 1 - .0069$$

Figuur 18

$$\bar{x} \pm z_{\alpha/2} \frac{\sigma}{\sqrt{n}}$$

Figuur 19

$$P(\bar{X} \leq \mu)$$

Figuur 20

$$t = \frac{\bar{x} - \mu}{s / \sqrt{n}}$$

Figuur 21

$$t = \frac{\bar{x} - \mu}{s / \sqrt{n}}$$

Figuur 22

$$\bar{x} \pm t_{\alpha/2} \frac{s}{\sqrt{n}}$$

Figuur 23

$$N\left(\bar{x} \pm t_{\alpha/2} \frac{s}{\sqrt{n}}\right)$$

Figuur 24

$$s^2 = \frac{\sum (x_i - \bar{x})^2}{n - 1}$$

Figuur 25

$$\bar{x} = 10$$

Figuur 26

$$\sum (x_i - \bar{x})^2$$

Figuur 27

$$\hat{p} \pm \frac{x}{n}$$

Figuur 28

$$\hat{p}$$

Figuur 29

$$z \pm \frac{\hat{p} - p}{\sqrt{p(1-p)/n}}$$

Figuur 30

$$z \pm \frac{\hat{p} - p}{\sqrt{p(1-p)/n}}$$

Figuur 31

$$\hat{p} \pm z_{\alpha/2} \sqrt{\hat{p}(1-\hat{p})/n}$$

Figuur 32

$$n\hat{p}$$

Figuur 33

$$n(1-\hat{p})$$

Figuur 34

$$N \pm z_{\alpha/2} \sqrt{\frac{\hat{p}(1-\hat{p})}{n}}$$

Figuur 35

$$n \pm z_{\alpha/2} \sqrt{\frac{\hat{p}(1-\hat{p})}{B}}$$

Figuur 36

$$\hat{p} \pm .5$$

Figuur 37

$$\hat{p}(1-\hat{p})$$

Figuur 38

$$\hat{p} \pm .03$$

Figuur 39

$$\hat{p} \pm .2$$

Figuur 40

$$\hat{p} \pm .024$$

Figuur 41

$$\hat{p} \approx 0$$

Figuur 42

$$\hat{p} \pm z_{\alpha/2} \sqrt{\frac{\hat{p}(1-\hat{p})}{n}} \approx 0 \pm 1.96 \sqrt{\frac{0(1-0)}{100}} \approx 0 \pm 0$$

Figuur 43

$$\tilde{p}$$

Figuur 44

$$\tilde{p} \pm z_{\alpha/2} \sqrt{\frac{\tilde{p}(1-\tilde{p})}{n \cdot 4}}$$

Figuur 45

$$\bar{x}_1 \sim \bar{x}_2$$

Figuur 46

$$\sqrt{\frac{\bar{x}_1 - \bar{x}_2}{s_1^2/n_1 + s_2^2/n_2}}$$

Figuur 47

$$V \sqrt{\frac{\bar{x}_1 - \bar{x}_2}{\frac{s_1^2}{n_1} + \frac{s_2^2}{n_2}}}$$

Figuur 48

$$z \sqrt{\frac{\bar{x}_1 - \bar{x}_2}{\frac{s_1^2}{n_1} + \frac{s_2^2}{n_2}}}$$

Figuur 49

$$\bar{x}_1 - \bar{x}_2 \pm z_{\alpha/2} \sqrt{\frac{s_1^2}{n_1} + \frac{s_2^2}{n_2}}$$

Figuur 50

$$t \sqrt{\frac{\bar{x}_1 - \bar{x}_2}{s_p^2 \left(\frac{1}{n_1} + \frac{1}{n_2} \right)}}$$

Figuur 51

$$\bar{x}_1 - \bar{x}_2 \pm t_{\alpha/2} \sqrt{s_p^2 \left(\frac{1}{n_1} + \frac{1}{n_2} \right)}$$

Figuur 52

$$\frac{\bar{x}_1 - \bar{x}_2, \dots, \bar{y}_1 - \bar{y}_2}{\sqrt{\frac{s_1^2}{n_1} + \frac{s_2^2}{n_2}}}$$

Figuur 53

$$v = \frac{(s_1^2/n_1 + s_2^2/n_2)^2}{\frac{(s_1^2/n_1)^2}{n_1 - 1} + \frac{(s_2^2/n_2)^2}{n_2 - 1}}$$

Figuur 54

$$t = \frac{\bar{x}_1 - \bar{x}_2, \dots, \bar{y}_1 - \bar{y}_2}{\sqrt{\frac{s_1^2}{n_1} + \frac{s_2^2}{n_2}}}$$

Figuur 55

$$v = \frac{s_1^2/n_1 \cdot s_2^2/n_2^2}{\frac{s_1^2/n_1}{n_1 - 1} + \frac{s_2^2/n_2}{n_2 - 1}}$$

Figuur 56

$$\bar{x}_1 - \bar{x}_2, \dots, t_{v/2} \sqrt{\frac{s_1^2}{n_1} + \frac{s_2^2}{n_2}}$$

Figuur 57

$$v = \frac{s_1^2/n_1 \cdot s_2^2/n_2^2}{\frac{s_1^2/n_1}{n_1 - 1} + \frac{s_2^2/n_2}{n_2 - 1}}$$

Figuur 58

$$\bar{x}_1 - \bar{x}_2$$

Figuur 59

$$t = \frac{\bar{x}_D - \bar{y}_D}{s_D / \sqrt{n_D}}$$

Figuur 60

$$\bar{x}_D \pm t_{v/2} \frac{s_D}{\sqrt{n_D}}$$

Figuur 61

$$r^2 = \frac{\sum_{i=1}^k \hat{f}_i \tilde{e}_i}{e_i^2}$$

Figuur 62

$$\hat{y} = b_0 + b_1 x$$

Figuur 63

$$\hat{y}$$

Figuur 64

$$\sum_{i=1}^n (y_i - \hat{y}_i)^2$$

Figuur 65

$$b_0 = \bar{y} - b_1 \bar{x}$$

Figuur 66

$$s_{xy} = \frac{\sum_{i=1}^n (x_i - \bar{x})(y_i - \bar{y})}{n - 1}$$

Figuur 67

$$s_x^2 = \frac{\sum_{i=1}^n (x_i - \bar{x})^2}{n - 1}$$

Figuur 68

$$\bar{x} = \frac{\sum_{i=1}^n x_i}{n}$$

Figuur 69

$$\bar{x} = \frac{\sum_{i=1}^n x_i}{n}$$

Figuur 70

$$s_{xy} = \frac{1}{n - 1} \sum_{i=1}^n x_i y_i - \frac{\sum_{i=1}^n x_i}{n} \frac{\sum_{i=1}^n y_i}{n}$$

Figuur 71

$$s_x^2 = \frac{1}{n-1} \sum_{i=1}^n x_i^2 - \frac{\left(\sum_{i=1}^n x_i \right)^2}{n}$$

Figuur 72