|  |  |  |  |
| --- | --- | --- | --- |
|  | **Enclosed shopping center** | | **Total** |
| **Visits** | **Yes** | **No** |
| Often | 80 | 43 | 123 |
| Occasional | 25 | 35 | 60 |
| Never | 4 | 50 | 54 |
| **Total** | 109 | 128 | 237 |

**1.**

**A)**

P (Often) =

P (Enclosed) =

P (Often ꓵ Enclosed) =

P (Often) and P (Enclosed) = × ≈ 59,57

**B)**

P (Never) =

P (Not Enclosed) =

P (Never ꓵ Not) =

P (Never │ Not) = = ≈ 0,39

**2.**

x = $243

α = $50

n = 43

P = $250

X ≈ N ($243; )

P (250 ≤ x ≤ ∞) = ( ≤ z ˂ ∞) = P (0,92 ≤ z ˂ ∞) = 1 – 0.8212 = 0.1788

Answer is 0.1788

**3.**

P = 25% = 0.25

Q = 100 – P = 0.75

N = 3 + 5 = 8

X = 3

× = × ≈ 0.20

Answer is 0.20 or 2%

**4.**

The largest value is 4

ʎ = 4

e = 2.72

P (x) =

P (x = 4) + (x = 7) = × + × = 0.25

Answer is 0.25 or 25%

**5**.

Error = $10

Level of confidence = 99%

SD = 14

10 = =

10 = 14

= 1.4

N = 1.96

Answer is 1.96

**6**.

Mean = $2500

SD = 443 + 10 = 453

P (2400 ˂ x ˂ 2600)

P () = ( - 0. 22 ˂ z ˂ 0.22)

Z – 2 × P (x ) = 1 – 2 × 0.5871 = - 0.1742

-0.22 0 0.22

Answer is – 0.1742

**7.**

µ1 = 6.3 1 = 2.3 n1 = 30

µ2 = 6.5 = 1.9 n2 = 34

α = 0.03

A)

: µ1 - µ2 = 0

: µ1 - µ2 ≠ 0

B)

= = (6.3-6.5)/√(〖2.3〗^2/30+〖1.9〗^2/34) ≈ -0.71

reject

**9.**

Min = 7 = c

Max = 8.4 = d

A)

P(x ˂ 8) = = 0.71

Answer is 0.71

B)

P = 0.71

= 0.71

Answer is T ≈ 8

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