



Equipe pédagogique

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### Série 3 de TD de Statistique Descriptive

**Exercice 1 :** Soit la série statistique à deux variables :

|          |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|
| <b>X</b> | 16 | 18 | 23 | 24 | 28 | 29 | 26 | 31 | 32 | 34 |
| <b>Y</b> | 20 | 24 | 28 | 22 | 32 | 28 | 32 | 36 | 41 | 41 |

- 1) Calculer les variances de X et Y
- 2) Calculer le coefficient de corrélation linéaire
- 3) Calculer la droite de régression de Y en X

**Exercice 2 :** Le tableau de régression suivant donne l'indice annuel d'ensoleillement X et l'indice de ventes annuelles des lunettes de soleil Y

|          |     |     |    |     |     |
|----------|-----|-----|----|-----|-----|
| <b>X</b> | 109 | 104 | 92 | 101 | 104 |
| <b>Y</b> | 110 | 103 | 92 | 100 | 105 |

- 1) Représenter graphiquement le nuage de points de cette série. : on prendra comme origine le point (90 ; 90) et comme échelle : 1 unité = 0.5cm pour X et Y .
- 2) Quel est le type de courbes qui peut ajuster le mieux ce nuage ?
- 3) Déterminer les paramètres de l'équation de cette courbe.

#### Exercice 3

L'observation des quantités offertes sur un marché de raisin de table et des prix de vente a donné les résultats suivants :

|                                       |      |      |      |      |      |      |      |      |
|---------------------------------------|------|------|------|------|------|------|------|------|
| <b>Quantité X à la vente (tonnes)</b> | 100  | 120  | 84   | 78   | 87   | 80   | 110  | 95   |
| <b>Prix moyen Y par kg (euros)</b>    | 1.60 | 1.40 | 1.95 | 2.10 | 1.75 | 2.25 | 1.50 | 1.80 |

- 1) Représenter le nuage de points de cette série statistique.
- 2) Calculer le coefficient de corrélation linéaire entre X et Y.
- 3) Déterminer l'équation de la droite des moindres carrés de Y en X et la représenter graphiquement. Sans faire de calcul, donnez le signe de la pente de la droite des moindres carrés de X en Y.
- 4) Déterminer la droite de régression de X en Y et la représenter sur le même graphe.
- 5) Prévoir le prix de vente si la quantité à la vente est de 150.

#### Exercice 4

Le tableau suivant présente l'évolution du PIB et de la dépense de consommation finale en milliards d'euros:

|              |      |      |      |      |      |      |      |      |      |      |      |
|--------------|------|------|------|------|------|------|------|------|------|------|------|
| <b>Année</b> | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 |
| <b>PIB</b>   | 1840 | 1890 | 1920 | 1670 | 2010 | 2020 | 1960 | 2000 | 2040 | 2050 | 2050 |
| <b>DCF</b>   | 1420 | 1450 | 1485 | 1510 | 1550 | 1560 | 1570 | 1600 | 1610 | 1610 | 1620 |

- 1) Représenter la série statistique par un nuage de points.
- 2) Calculer le coefficient de corrélation linéaire. Commenter.
- 3) Donner l'équation de la droite de régression du PIB (Y) en fonction du DCF (X).

# Td De Statistique Descriptive E Eacutedition Statistiques T

**Josyane Blard-Laborderie**



## **Td De Statistique Descriptive E Eacutedition Statistiques T:**

*TD de statistique descriptive - 5e éd.* Jean-Louis Monino, 2017-03-22 Cet ouvrage compos de deux tiers d applications QCM questions de r flexion entra nement solutions et d un tiers de r vision pr sente les bases de l enseignement de la statistique descriptive Il permet d utiliser les possibilit s offertes par les calculateurs lectroniques extr mement puissants Trois des dix TD expliquent comment r aliser un exercice sur Excel version 2007 Cette 5e dition est compl tement nouvelle avec une multitude d exercices vari s et des sujets d examen r cents Les corrig s sont d taill s Statistique descriptive

Jean-Louis Monino, 2017-03-22 **Introduction À La Statistique Descriptive, 3E Édition** Leboucher, Voisin, 2015-06-18 La 4e de couv indique Cet ouvrage propose un apprentissage par la pratique de la statistique descriptive Les exercices fond s le plus souvent sur des donn es r elles sont r alis s avec un tableur L utilisateur est guid dans leur r alisation de sorte qu il peut les faire sans rencontrer de difficult s insurmontables De cette fa on il acquiert un bagage de connaissances et de savoir faire qui lui permettront le jour o il sera en situation de traiter des donn es statistiques de disposer des outils adapt s de penser les utiliser et de savoir s en servir Les cours et exercices sont organis s en quatre chapitres pr sentation des donn es statistiques indicateurs statistiques concernant l tude d une variable position dispersion indices concentration tude de distributions statistiques deux variables r gression corr lation tude de s ries chronologiques Ce livre sera utile toute personne conduite utiliser des donn es statistiques qu il s agisse de faire un rapport ou de r diger un m moire Il a t con u pour tre accessible au plus grand nombre les tudians en sciences humaines et sociales de premi re et deuxi me ann e de licence en tireront particuli rement profit **Les méthodes de la statistique descriptive** Alain Nurbel, Ibrahim Ahamada, 2007

**Statistiques descriptives** Pierre Bailly, Christine Carrère, 2007 Ce livre d exercices de statistique descriptive vise non seulement acqu rir les techniques de calcul des outils de description et de synth se des s ries statistiques mais galement donner des l ments de pertinence pour l analyse et la compr hension des r sultats trouv s Il constitue le compl ment du cours de statistique descriptive qui pr sente les concepts Ce ouvrage organis en cinq parties propose des exercices sur les diff rents aspects de la statistique descriptive les outils de base de la statistique descriptive les variables les nomenclatures les repr sentations graphiques les caract ristiques d crivant les distributions une dimension mode m diane moyennes indicateurs de dispersion et de concentration les techniques permettant de mettre en lumi re les relations entre variables pour des distributions deux dimensions corr lation ajustement coefficient de d termination les m thodes les plus simples du traitement des s ries chronologiques tendance longue correction des variations saisonni res les calculs des indices une des informations les plus utilis es dans l information conomique et sociale Cet ouvrage s adresse aux tudians de premi re ann e de licence d conomie gestion d AES administration conomique et sociale et plus g n ralement en sciences sociales Ce livre accompagne le cours de statistiques descriptives des m mes auteurs **Exercices de statistique descriptive** Bernard Grais, 1983

*Statistique descriptive* Stéphanie Baggio, Stéphane Deline, Stéphane Rothen, 2017-08-24 La 4e de couverture indique

Statistique un mot qui fait peur En 20 cours cet ouvrage livre aux étudiants de psychologie les clés de la statistique descriptive base indispensable pour la suite de leur parcours Très concret ancré dans la méthodologie propre la psychologie il décrit la statistique descriptive sous toutes ses formes tableaux graphiques résumés numériques grâce des explications pas pas Il propose également des applications sur le logiciel R libre et gratuit Enrichi de nombreuses illustrations pour mieux visualiser et de exemples ludiques pour dramatiser la matière ce guide progressif permettra chaque étudiant d'apprivoiser la statistique et de l'utiliser de manière autonome et critique Un véritable passeport pour la réussite Chaque fiche contient un résumé de cours avec les grands concepts maîtriser des applications notamment sur R des conseils méthodologiques des exercices avec corrigés détaillés

**Exercices corrigés de statistique descriptive** Bernard Grais, 1991

**Statistique descriptive avec ou sans tableur** Michel Janvier, 1999 Ce cours de statistique descriptive destiné en priorité aux étudiants de DEUG MASS pourra également intéresser les étudiants du premier cycle universitaire en sciences économiques géographie sociologie ainsi que les auditeurs de la formation continue Les thèmes abordés sont les suivants organisation des données étude d'une variable statistique représentation graphique paramètres de position et de dispersion concentration étude de distributions statistiques deux caractéristiques de composition des variances corrélation ajustements L'ouvrage insiste sur le choix coordonné des différents paramètres résumant une distribution statistique Il fournit les représentations graphiques les plus récentes diagramme en tiges et feuilles botes de dispersion l'aide du logiciel Excel Enfin de nombreux exercices tirés de l'actualité économique et sociale entièrement corrigés permettent de mettre en œuvre les concepts et méthodes de la statistique descriptive dans des situations concrètes

**Statistiques descriptives** Gérard Chauvat, Jean-Philippe Réau, 1998 Un ouvrage méthodique et progressif pour assurer un entraînement personnel tout au long de l'année une révision systématique du programme une préparation optimale aux examens et concours Une présentation pédagogique et pratique comprenant des résumés de cours et des rappels de notions de base des exercices d'application suivis de leurs solutions complètes des problèmes avec des solutions commentées des thèmes de rédaction inspirés de sujets récents d'examens

**Statistiques descriptives** Pierre Bailly, Christine Carrère, 2007 Ce livre de cours présente les principales notions et concepts utilisés dans le domaine de la statistique descriptive Il est organisé en cinq parties sur les différents aspects de la statistique descriptive les outils de base de la statistique descriptive les variables les nomenclatures les représentations graphiques les caractéristiques décrivant les distributions une dimension mode médiane moyennes indicateurs de dispersion et de concentration les techniques permettant de mettre en lumière les relations entre variables pour des distributions deux dimensions corrélation ajustement coefficient de détermination les méthodes les plus simples du traitement des séries chronologiques tendance longue correction des variations saisonnières les calculs des indices une des informations les plus utilisées dans l'information économique et sociale Le cours vise donner les outils qui permettent d'analyser car c'est l'essentiel des calculs les résultats obtenus afin d'en obtenir une information pertinente Cet ouvrage s'adresse aux étudiants de première année de licence d'économie gestion d'AES

administration économique et sociale et plus généralement en sciences sociales Cet ouvrage est complété par un ouvrage d'exercices la résolution de ceux-ci facilitant la maîtrise des techniques de calcul et permettant donc une analyse des résultats

**Techniques statistiques** Bernard Grais, 2000 L'ambition de cet ouvrage est de donner sous une forme pratique et sans recours excessif à l'appareil mathématique un exposé clair des techniques statistiques qui sont aujourd'hui indispensables à l'étudiant au responsable ou cadre d'entreprise Le présent volume Statistique descriptive aborde de façon claire et précise les méthodes mentales essentiellement descriptives qui suffisent le plus souvent pour interpréter les données disponibles et clarifier la prise de décision le classement et le traitement des données les représentations graphiques les résumés numériques des observations l'utilisation des indices statistiques Largement illustré d'exemples commentés et expliqués il constitue un outil dont l'aspect concret ne chappera pas ceux qui s'intéressent surtout aux principes aux résultats et aux applications Statistique descriptive est suivi du volume de Méthodes statistiques consacré aux instruments d'analyse statistique complété dans la même collection par les Exercices de statistique descriptive avec rappels de cours

**Introduction à la statistique descriptive cours et exercices avec tableur**, 2011 Statistique descriptive Luc Albarello, Etienne Bourgeois, Jean-Luc Guyot, 2003 Cet ouvrage propose les outils principaux de la statistique descriptive pour résoudre des questions très concrètes telles que Comment construire ou interpréter de manière critique des tableaux de données ou des graphiques Comment travailler avec des proportions ratios pourcentages etc avec des mesures de variation nombres indices de tendance centrale moyenne mode et de dispersion variance espace interquartile Comment donner du sens aux chiffres S'adressant en priorité des praticiens occasionnellement ou régulièrement amenés dans leur vie quotidienne produire ou interpréter des données statistiques sans avoir aucune expertise particulière préalable dans le domaine l'ouvrage a trait tout simplement à la statistique dans une perspective d'apprentissage Ecrit dans un langage clair et accessible il abonde en exemples concrets et exercices corrigés principalement dans le champ économique politique social ou éducatif Il intéressera les professionnels dans les domaines des sciences sociales de l'éducation et de la santé mais aussi les professeurs et les étudiants des 1<sup>er</sup> et 2<sup>e</sup> cycles en sciences humaines

**Méthodes et applications de la statistique descriptive** Ahlam Mohammadi, Abdelkamel Alj, Outmane Soussi Noufail, 2025-05-15

**De l'analyse à la prévision: Comprendre la statistique descriptive statique** Didier Schlachter, 2009 **Statistique descriptive** Jean-Pierre Lecoutre, 1990 **Statistique descriptive** Jean-Louis Monino, Jean-Michel Kosianski, François Le Cornu, 2010-09-22 Les ouvrages de la collection TD proposent des résumés I de cours de nombreux QCM des questions de réflexion ainsi que des exercices d'entraînement et des sujets d'annales corrigés Cette 4<sup>e</sup> édition enrichie par de nouveaux exercices développe les bases de la statistique descriptive vocabulaire résumés numériques des variables quantitatives indices et concentration construction des tableaux résumés numériques des variables bidimensionnelles moindres carrés ordinaires qualité des ajustements séries chronologiques correction des variations saisonnières Les applications sur tableur Excel ont entièrement été refondues pour intégrer la version 2007 du logiciel

*Initiation à la statistique descriptive* Pierre

Borey, Taladidia Thiombiano, 1981

**Initiation à la statistique descriptive** Josyane Blard-Laborderie, 1994

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## **Table of Contents Td De Statistique Descriptive E Eacutedition Statistiques T**

1. Understanding the eBook Td De Statistique Descriptive E Eacutedition Statistiques T
  - The Rise of Digital Reading Td De Statistique Descriptive E Eacutedition Statistiques T
  - Advantages of eBooks Over Traditional Books
2. Identifying Td De Statistique Descriptive E Eacutedition Statistiques T
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Td De Statistique Descriptive E Eacutedition Statistiques T
  - User-Friendly Interface
4. Exploring eBook Recommendations from Td De Statistique Descriptive E Eacutedition Statistiques T
  - Personalized Recommendations
  - Td De Statistique Descriptive E Eacutedition Statistiques T User Reviews and Ratings
  - Td De Statistique Descriptive E Eacutedition Statistiques T and Bestseller Lists
5. Accessing Td De Statistique Descriptive E Eacutedition Statistiques T Free and Paid eBooks
  - Td De Statistique Descriptive E Eacutedition Statistiques T Public Domain eBooks
  - Td De Statistique Descriptive E Eacutedition Statistiques T eBook Subscription Services
  - Td De Statistique Descriptive E Eacutedition Statistiques T Budget-Friendly Options

6. Navigating Td De Statistique Descriptive E Eacutediton Statistiques T eBook Formats
  - ePub, PDF, MOBI, and More
  - Td De Statistique Descriptive E Eacutediton Statistiques T Compatibility with Devices
  - Td De Statistique Descriptive E Eacutediton Statistiques T Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Td De Statistique Descriptive E Eacutediton Statistiques T
  - Highlighting and Note-Taking Td De Statistique Descriptive E Eacutediton Statistiques T
  - Interactive Elements Td De Statistique Descriptive E Eacutediton Statistiques T
8. Staying Engaged with Td De Statistique Descriptive E Eacutediton Statistiques T
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Td De Statistique Descriptive E Eacutediton Statistiques T
9. Balancing eBooks and Physical Books Td De Statistique Descriptive E Eacutediton Statistiques T
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Td De Statistique Descriptive E Eacutediton Statistiques T
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Td De Statistique Descriptive E Eacutediton Statistiques T
  - Setting Reading Goals Td De Statistique Descriptive E Eacutediton Statistiques T
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Td De Statistique Descriptive E Eacutediton Statistiques T
  - Fact-Checking eBook Content of Td De Statistique Descriptive E Eacutediton Statistiques T
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements



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web all the females in the f1 generation were long finned and stripped while all the males were long finned and spotted body pattern is sex linked trait answer the next 3 questions based on this scenario

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