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Check-out Kapitel VI

Schätze dich mithilfe der Checkliste ein.

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|  | Checkliste |  |  |  | Lerntipps | zum Nacharbeiten |
| 1. | Ich kenne die Begriffe relative Häufigkeit und absolute Häufigkeit  und kann sie bestimmen. | 🞎 | 🞎 | 🞎 | Merkkasten auf Seite 180 Beispiele auf Seite 181 | Seite 198: A1 b) und 2b) |
| 2. | Ich kann Säulen- und Kreisdiagramme erstellen. | 🞎 | 🞎 | 🞎 | Text nach dem Merkkasten auf Seite 180  Beispiele auf Seite 181 | Seite 198: A1 c)  Seite 200: A13 |
| 3. | Ich kann Diagrammen Informationen entnehmen. | 🞎 | 🞎 | 🞎 |  | Seite 200: A12  Seite 203, Runde 1:  A2 a) bis c) |
| 4. | Ich kenne das arithmetische Mittel  und den Median und kann sie bestimmen. | 🞎 | 🞎 | 🞎 | Merkkasten auf Seite 185  Beispiele auf Seite 186 | Seite 198: A1 a), 2 a)  und 3 |
| 5. | Ich kann aus einer Datenreihe einen Boxplot erstellen. | 🞎 | 🞎 | 🞎 | Lehrtext auf Seite 190 | Seite 196: A4 und  Seite 203 Runde 1: A3 |
| 6. | Ich kann einem Boxplot Informationen entnehmen. | 🞎 | 🞎 | 🞎 | Beispiele 1 und 2 auf Seite 191 | Seite 198: A6 |
| 7. | Ich kann Tabellen­kalkulations­pro­gramme zur Auswertung von Daten nutzen. | 🞎 | 🞎 | 🞎 | Beispiel 2 auf Seite 181  Beispiele 1 und 2 auf Seite 195 | obige Aufgaben mit einem Tabellenkalkulations-programm |

Überprüfe deine Einschätzung.

Zu 1. Relative Häufigkeit und absolute Häufigkeit bestimmen

An der Albert-Einstein-Schule fanden Bundesjugendspiele statt. Von den 32 Schülerinnen und Schülern der Klasse 6 b erhielten 13 eine Siegerurkunde. In der Klasse 6 d waren es hingegen 11 von 27. Bestimme, welche Klasse erfolgreicher war.

Zu 2. Säulen- und Kreisdiagramme erstellen

Erstelle zu dem Sachzusammenhang aus Aufgabe 1 ein Säulen- und ein Kreisdiagramm.

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Zu 3. Diagrammen Informationen entnehmen

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| In Deutschland lebten im Jahr 2015 etwa 82,17 Millionen Menschen.  a) Gib an, wie viele Einwohner der Gesamtbevölkerung zwischen 21 und 64 Jahren waren.   |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |   Gib an, wie viele Einwohner der Be­völkerung älter als 60 Jahre waren.   |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  | |  | I:\Klett_LS\733464_LS6_NW_DUA\733464_Schmuckelemente\Kapitel_05\SE96735461_G_CO_K05_001.tif |
| b) Beurteile mithilfe der Angaben aus dem Diagramm die folgende Behauptung:  „Fast ein Drittel der Bevölkerung war im Jahr 2015 mindestens 60 Jahre alt.“ |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |

Zu 4. Arithmetisches Mittel und Median bestimmen

Eine Befragung nach der Dauer des Schulweges ergab in der Klasse 5 d folgende Datenliste

(Angaben in Minuten):

7, 5, 6, 10, 12, 8, 13, 12, 9, 8, 21, 24, 10, 12, 5, 18, 14, 7, 9, 15, 6, 20, 10

a) Ermittle arithmetisches Mittel und Median dieser Datenreihe.

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b) Untersuche, wie sich das arithmetische Mittel und der Median ändert, wenn der Schüler, der bisher 24 Minuten für seinen Schulweg benötigte, aufgrund eines Umzugs nun 90 Minuten benötigt.

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Zu 5. **Boxplot erstellen**

Eine Befragung nach der Dauer des Schulweges ergab in der Klasse 5 d folgende Urliste (Angaben in Minuten):

7, 5, 6, 10, 12, 8, 13, 12, 9, 8, 21, 24, 10, 12, 5, 18, 14, 7, 9, 15, 6, 20, 11

Zeichne einen Boxplot zu der Datenreihe.

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Zu 6. **Einem Boxplot Informationen entnehmen**

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| Im Boxplot rechts sind die Einnahmen der Klasse 6 e beim Sponsorenlauf dargestellt. Beschreibe, was du dem Boxplot über die Verteilung der Einnahmen entnehmen kannst.   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  | I:\Klett_WORD\733472_733474_LS7_NW_Serviceblätter\733474_Schmuckelemente\K03\Übernahmen_verändert\SE89733471_G_K06_174_02_V2.png |

Zu 7. **Tabellenkalkulationsprogramme zur Auswertung von Daten nutzen**

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| Claudia verdient sich Geld durch Babysitten. Sie schreibt die Einnahmen einer Woche in einem Tabellenkalkulationsprogramm auf. Sie möchte wissen, mit wie viel Geld sie durchschnittlich in einer Woche rechnen kann.  a) Setze in Zelle B11 die Formel zur Berechnung der Summe der Einnahmen in der 1. Woche ein.  b) Kontrolliere die vier Ergebnisse in den Zellen B13 bis B16 und korrigiere mögliche Fehler.  c) Ist der Median oder das arithmetische Mittel für die Vorhersage besser geeignet? Begründe deine Antwort kurz. |  | |  |  |  | | --- | --- | --- | |  | A | B | | 1 | Babysitten-Einnahmen | | | 2 |  | | | 3 |  | 1. Woche | | 4 | Montag | 5 € | | 5 | Dienstag | 1 € | | 6 | Mittwoch | 7 € | | 7 | Donnerstag | 3 € | | 8 | Freitag | 3 € | | 9 | Samstag | 5 € | | 10 | Sonntag | 0 € | | 11 | Summe |  | | 12 |  |  | | 13 | Median | 3 € | | 14 | Arith. Mittel | 5,20 € | | 15 | Minimum | 1 € | | 16 | Maximum | 7 € | |

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|  | VI Daten |  | Lösungen |  |
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Check-out Kapitel VI, S 132 bis S 134

1 6 b: 6 d:

Die relative Häufigkeit ist bei der 6 d minimal höher, sodass sie genau genommen den besseren Wert hat. Allerdings ist bei der 6 b die absolute Häufigkeit höher. Man kann sagen: Die beiden Klassen sind vergleichbar gut. Interessant wären noch Informationen über die Anzahl der Ehrenurkunden.

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Bei beiden Diagrammtypen kann man erkennen, dass die beiden Klassen bezogen auf den Anteil der Siegerurkunden in etwa gleich gut sind.

3 a) 48,94 Millionen Einwohner waren zwischen 21 und 64 ().

b) 22,5 Millionen Einwohner waren älter als 60 ().

c) . Die Aussage ist falsch, da es etwas weniger als ein Drittel sind.

4 a) arithmetisches Mittel: Median: 10

Sortierte Datenreihe: 5 5 6 6 7 7 8 8 9 9 10 10 10 12 12 12 13 14 15 18 20 21 24

b) arithmetisches Mittel: Median: 10

Sortierte Datenreihe: 5 5 6 6 7 7 8 8 9 9 10 10 10 12 12 12 13 14 15 18 20 21 90

Das arithmetische Mittel erhöht sich leicht, da dieser Wert der Mittelwert aller Daten ist.

Eine beliebige Erhöhung des größten Wertes lässt den Median unverändert, da es insgesamt 23 Daten sind und der Median somit bei beiden Datenlisten der 12. Wert der sortierten Liste ist.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | VI Daten |  | Lösungen |  |
|  |  | | | |

5 arithmetisches Mittel:

Sortierte Datenreihe: 5 5 6 6 7 7 8 8 9 9 10 10 11 12 12 12 13 14 15 18 20 21 24

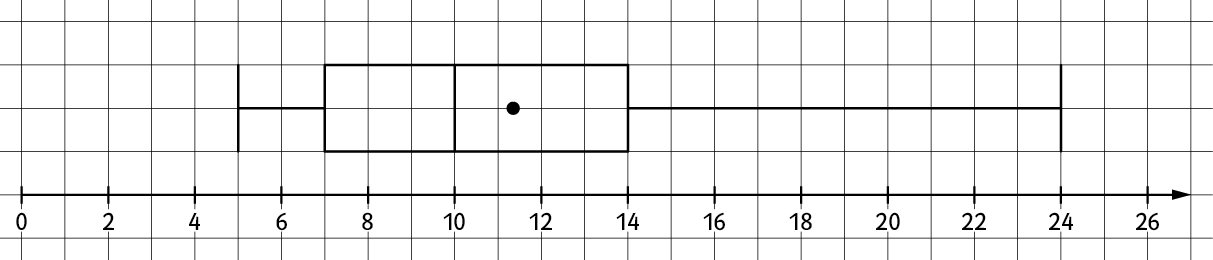
Minimum: 5

Median: 10

Maximum: 24

unteres Quartil: 7

oberes Quartil: 14



6 Man erkennt, dass die Einnahmen zwischen 13 € und 25 € lagen. Außerdem bekam mindestens die Hälfte aller Schüler zwischen 17 € und 19 €. Arithmetisches Mittel und Median liegen bei 18 €.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 7 a) siehe Tabelle  b) Die Eintragungen in den Zellen B14 und B15 sind falsch (richtige Werte, siehe Tabelle).    c) Das arithmetische Mittel ist besser geeignet, da es relativ hohe und relativ geringe Beträge besser berücksichtigt und ausgleicht. |  | |  |  |  | | --- | --- | --- | |  | A | B | | 1 | Babysitten-Einnahmen | | | 2 |  | | | 3 |  | 1.Woche | | 4 | Montag | 5 € | | 5 | Dienstag | 1 € | | 6 | Mittwoch | 7 € | | 7 | Donnerstag | 3 € | | 8 | Freitag | 3 € | | 9 | Samstag | 5 € | | 10 | Sonntag | 0 € | | 11 | Summe | =SUMME(B4:B10) | | 12 |  |  | | 13 | Median | 3 € | | 14 | Arith. Mittel | 3,43 € | | 15 | Minimum | 0 € | | 16 | Maximum | 7 € | |