

## أولاً: صدق أداة الدراسة

ويعرف بما يلي: إلى أي درجة توفر الأداة بيانات ذات علاقة بمشكلة الدراسة من مجتمع الدراسة.

## ثانيا: ثبات أداة الدراسة

ويعرف بما يلي: إلى أي درجة يعطي المقياس قراءات متقاربة عند كل مرة يستخدم فيها، فالاختبار الثابت هو الذي يعطي نفس النتائج أو نتائج متقاربة، إذا طبق أكثر من مرة في ظروف متماثلة، فالأداة المتذبذبة لا يمكن الاعتماد عليها ولا الأخذ بنتائجها وبالتالي ستكون الدراسة مضللة وغير مطمئة.

# صدق وثبات الأداة

وللتأكد من الصدق الظاهري للأداة، تمَّ عرضها على مجموعة من المحكمات من أعضاء هيئة التدريس بجامعة الملك عبد العزيز من تخصص علم الاجتماع والخدمة الاجتماعية وتخصص الإعلام، وذلك للاسترشاد برأيهن والتعرف على وجهة نظرهن حول محاور الاستبيان ودرجة موافقة الفقرات لأهداف الدراسة ومدى وضوح الصياغة لغوياً، وفي ضوء ذلك تم تعديل بعض الفقرات، بعد ذلك طُبقت الاستبانة المعدلة على (١٥) طالبة من مجتمع البحث (pre-test) للتأكد من وضوح الأسئلة كي تكون سهلة الفهم على المبحوثات وكذلك التعرف إلى أية معلومات أو إضافات أخرى يرونها ضرورية وتم أخذ ملاحظاتهم بعين الاعتبار. (انظر ملحق ٣ أداة الدراسة)

مثال عن استبانة

| رقم                                               | الفقرات                                 | التقدير        |           |            |               |                    |
|---------------------------------------------------|-----------------------------------------|----------------|-----------|------------|---------------|--------------------|
|                                                   |                                         | موافق بشدة (5) | موافق (4) | محايدة (3) | غير موافق (2) | غير موافق بشدة (1) |
| المعايير التي سيتم في ضوءها التقويم               |                                         |                |           |            |               |                    |
| أولا : المحتوى                                    |                                         |                |           |            |               |                    |
| 1.                                                | يرتبط محتوى الكتاب بأهدافه              |                |           |            |               |                    |
| 2.                                                | يكفي عدد الحصص المقررة لدراسة الكتاب    |                |           |            |               | a                  |
| 3.                                                | مفاهيم الكتاب متسلسلة.                  |                |           |            |               |                    |
| ثانيا : عرض المحتوى والرسومات والتوضيحات والأمثلة |                                         |                |           |            |               |                    |
| 1.                                                | يعرض المحتوى بطريقة مشوقة               |                |           |            |               |                    |
| 2.                                                | يعرض المحتوى بطريقة متكاملة .           |                |           |            |               | b                  |
| 3.                                                | الدروس في الوحدة متدرجة.                |                |           |            |               |                    |
| ثالثا: وسائل التقويم ( المسائل والتدريبات )       |                                         |                |           |            |               |                    |
| 1.                                                | ترتبط التدريبات والمسائل بأهداف الكتاب. |                |           |            |               |                    |
| 2.                                                | ترتبط التدريبات والمسائل بمحتوي الكتاب. |                |           |            |               | c                  |
| 3.                                                | توجد اختبارات شاملة في نهاية كل وحدة.   |                |           |            |               |                    |
| رابعا: الإخراج ( الداخلي والخارجي )               |                                         |                |           |            |               |                    |
| 1.                                                | الغلاف الخارجي للكتاب جذاب.             |                |           |            |               |                    |
| 2.                                                | بنط صفحات الكتاب مناسب للقراءة.         |                |           |            |               | d                  |
| 3.                                                | يخلو الكتاب من الأخطاء المطبعية.        |                |           |            |               |                    |

وأسماء المتغيرات هي  $a1, a2, a3$  للمجال الأول ( المحتوى )  
 $b1, b2, b3$  للمجال الثاني ( عرض المحتوى )  $c1, c2, c3$   
للمجال الثالث ( وسائل التقويم )  $d1, d2, d3$  للمجال الرابع  
( الإخراج ) ، وشاشة المدخلات كالتالي:

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12 : b1 Visible: 12 of 12 Variables

|    | a1   | a2   | a3   | b1   | b2   | b3   | c1   | c2   | c3   | d1   | d2   | d3   | var | var | var | var |
|----|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|
| 1  | 4.00 | 4.00 | 4.00 | 1.00 | 5.00 | 1.00 | 5.00 | 1.00 | 5.00 | 3.00 | 2.00 | 3.00 |     |     |     |     |
| 2  | 3.00 | 5.00 | 2.00 | 2.00 | 4.00 | 4.00 | 2.00 | 2.00 | 2.00 | 3.00 | 1.00 | 2.00 |     |     |     |     |
| 3  | 5.00 | 5.00 | 4.00 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 | 1.00 | 3.00 | 1.00 | 3.00 |     |     |     |     |
| 4  | 4.00 | 4.00 | 1.00 | 4.00 | 3.00 | 5.00 | 5.00 | 5.00 | 4.00 | 3.00 | 4.00 | 5.00 |     |     |     |     |
| 5  | 2.00 | 4.00 | 4.00 | 4.00 | 2.00 | 5.00 | 5.00 | 1.00 | 4.00 | 5.00 | 4.00 | 4.00 |     |     |     |     |
| 6  | 4.00 | 5.00 | 5.00 | 5.00 | 4.00 | 2.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 |     |     |     |     |
| 7  | 5.00 | 4.00 | 5.00 | 6.00 | 4.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 |     |     |     |     |
| 8  | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 5.00 | 4.00 | 2.00 | 4.00 | 4.00 | 5.00 | 5.00 |     |     |     |     |
| 9  | 4.00 | 4.00 | 4.00 | 4.00 | 5.00 | 4.00 | 2.00 | 1.00 | 2.00 | 1.00 | 3.00 | 4.00 |     |     |     |     |
| 10 | 2.00 | 5.00 | 4.00 | 4.00 | 5.00 | 3.00 | 3.00 | 4.00 | 3.00 | 1.00 | 3.00 | 2.00 |     |     |     |     |
| 11 |      |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |
| 12 |      |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |
| 13 |      |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |
| 14 |      |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |
| 15 |      |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |
| 16 |      |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |
| 17 |      |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |
| 18 |      |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |
| 19 |      |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |
| 20 |      |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |
| 21 |      |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |
| 22 |      |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |
| 23 |      |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |

1

Data View Variable View

Go to Settings to activate Windows.

- نوجد معدل كل مجال من المجالات الأربعة ونعطيها الأسماء  $av\_a$ ,  $av\_b$ ,  $av\_c$ ,  $av\_d$  وكذلك نوجد معدل المجالات مجتمعة باسم  $av\_total$

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Compute Variable...  
Count Values within Cases...  
Shift Values...  
Recode into Same Variables...  
Recode into Different Variables...  
Automatic Recode...  
Visual Binning...  
Optimal Binning...  
Prepare Data for Modeling  
Rank Cases...  
Date and Time Wizard...  
Create Time Series...  
Replace Missing Values...  
Random Number Generators...  
Run Pending Transforms Ctrl+G

12 : b1

|    | a1   | b2   | b3   | c1   | c2   | c3   | d1   | d2   | d3   | var | var | var | var |
|----|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|
| 1  | 4.00 | 5.00 | 1.00 | 5.00 | 1.00 | 5.00 | 3.00 | 2.00 | 3.00 |     |     |     |     |
| 2  | 3.00 | 4.00 | 4.00 | 2.00 | 2.00 | 2.00 | 3.00 | 1.00 | 2.00 |     |     |     |     |
| 3  | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 | 1.00 | 3.00 | 1.00 | 3.00 |     |     |     |     |
| 4  | 4.00 | 3.00 | 5.00 | 5.00 | 5.00 | 4.00 | 3.00 | 4.00 | 5.00 |     |     |     |     |
| 5  | 2.00 | 2.00 | 5.00 | 5.00 | 1.00 | 4.00 | 5.00 | 4.00 | 4.00 |     |     |     |     |
| 6  | 4.00 | 4.00 | 2.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 |     |     |     |     |
| 7  | 5.00 | 4.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 |     |     |     |     |
| 8  | 5.00 | 4.00 | 5.00 | 4.00 | 2.00 | 4.00 | 4.00 | 5.00 | 5.00 |     |     |     |     |
| 9  | 4.00 | 5.00 | 4.00 | 2.00 | 1.00 | 2.00 | 1.00 | 3.00 | 4.00 |     |     |     |     |
| 10 | 2.00 | 5.00 | 3.00 | 3.00 | 4.00 | 3.00 | 1.00 | 3.00 | 2.00 |     |     |     |     |
| 11 |      |      |      |      |      |      |      |      |      |     |     |     |     |
| 12 |      |      |      |      |      |      |      |      |      |     |     |     |     |
| 13 |      |      |      |      |      |      |      |      |      |     |     |     |     |
| 14 |      |      |      |      |      |      |      |      |      |     |     |     |     |
| 15 |      |      |      |      |      |      |      |      |      |     |     |     |     |
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| 17 |      |      |      |      |      |      |      |      |      |     |     |     |     |
| 18 |      |      |      |      |      |      |      |      |      |     |     |     |     |
| 19 |      |      |      |      |      |      |      |      |      |     |     |     |     |
| 20 |      |      |      |      |      |      |      |      |      |     |     |     |     |
| 21 |      |      |      |      |      |      |      |      |      |     |     |     |     |
| 22 |      |      |      |      |      |      |      |      |      |     |     |     |     |
| 23 |      |      |      |      |      |      |      |      |      |     |     |     |     |

Visible: 12 of 12 Variables

Data View Variable View

Compute Variable... IBM SPSS Statistics Processor is ready

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12: b1

|    | a1   | a2   | a3   |
|----|------|------|------|
| 1  | 4.00 | 4.00 | 4.00 |
| 2  | 3.00 | 5.00 | 2.00 |
| 3  | 5.00 | 5.00 | 4.00 |
| 4  | 4.00 | 4.00 | 1.00 |
| 5  | 2.00 | 4.00 | 4.00 |
| 6  | 4.00 | 5.00 | 5.00 |
| 7  | 5.00 | 4.00 | 5.00 |
| 8  | 5.00 | 5.00 | 5.00 |
| 9  | 4.00 | 4.00 | 4.00 |
| 10 | 2.00 | 5.00 | 4.00 |
| 11 |      |      |      |
| 12 |      |      |      |
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| 22 |      |      |      |
| 23 |      |      |      |

Compute Variable

Target Variable:  
av\_a

Type & Label...

Numeric Expression:

Function group:  
Miscellaneous  
Missing Values  
PDF & Noncentral PDF  
Random Numbers  
Search  
Significance  
Statistical

Functions and Special Variables:  
CVar  
Max  
Mean  
Median  
Min  
Sd  
Sum  
Variance

MEAN(numexpr,numexpr[...]). Numeric. Returns the arithmetic mean of its arguments that have valid, nonmissing values. This function requires two or more arguments, which must be numeric. You can specify a minimum number of valid arguments for this function to be evaluated.

If... (optional case selection condition)

OK Paste Reset Cancel Help

Data View Variable View

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File Edit View Data Transform Analyze Direct Marketing Graphs Utilities Add-ons Window Help

12: b1

|    | a1   | a2   | a3  |
|----|------|------|-----|
| 1  | 4.00 | 4.00 | 4.0 |
| 2  | 3.00 | 5.00 | 2.0 |
| 3  | 5.00 | 5.00 | 4.0 |
| 4  | 4.00 | 4.00 | 1.0 |
| 5  | 2.00 | 4.00 | 4.0 |
| 6  | 4.00 | 5.00 | 5.0 |
| 7  | 5.00 | 4.00 | 5.0 |
| 8  | 5.00 | 5.00 | 5.0 |
| 9  | 4.00 | 4.00 | 4.0 |
| 10 | 2.00 | 5.00 | 4.0 |
| 11 |      |      |     |
| 12 |      |      |     |
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| 23 |      |      |     |

Compute Variable

Target Variable: av\_a

Numeric Expression:

Type & Label...

a1  
a2  
a3  
b1  
b2  
b3  
c1  
c2  
c3  
d1  
d2  
d3

+ < > 7 8 9  
- <= >= 4 5 6  
\* = ~= 1 2 3  
/ & | 0 .  
\*\* ~ () Delete

Function group:  
Miscellaneous  
Missing Values  
PDF & Noncentral PDF  
Random Numbers  
Search  
Significance  
Statistical

Functions and Special Variables:  
Cvar  
Max  
Mean  
Median  
Min  
Sd  
Sum  
Variance

MEAN(numexpr,numexpr[...]). Numeric. Returns the arithmetic mean of its arguments that have valid, nonmissing values. This function requires two or more arguments, which must be numeric. You can specify a minimum number of valid arguments for this function to be evaluated.

If... (optional case selection condition)

OK Paste Reset Cancel Help

Visible: 12 of 12 Variables

Data View Variable View

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12: b1

|    | a1   | a2   | a3   |
|----|------|------|------|
| 1  | 4.00 | 4.00 | 4.00 |
| 2  | 3.00 | 5.00 | 2.00 |
| 3  | 5.00 | 5.00 | 4.00 |
| 4  | 4.00 | 4.00 | 1.00 |
| 5  | 2.00 | 4.00 | 4.00 |
| 6  | 4.00 | 5.00 | 5.00 |
| 7  | 5.00 | 4.00 | 5.00 |
| 8  | 5.00 | 5.00 | 5.00 |
| 9  | 4.00 | 4.00 | 4.00 |
| 10 | 2.00 | 5.00 | 4.00 |
| 11 |      |      |      |
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Compute Variable

Target Variable: av\_a

Numeric Expression: = MEAN(a1,a2,a3)

Type & Label...

Function group: Statistical

Functions and Special Variables: Mean

MEAN(numexpr,numexpr,...). Numeric. Returns the arithmetic mean of its arguments that have valid, nonmissing values. This function requires two or more arguments, which must be numeric. You can specify a minimum number of valid arguments for this function to be evaluated.

If... (optional case selection condition)

OK Paste Reset Cancel Help

Visible: 12 of 12 Variables

Data View Variable View

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12: b1 Visible: 13 of 13 Variables

|    | a1   | a2   | a3   | b1   | b2   | b3   | c1   | c2   | c3   | d1   | d2   | d3   | av_a | va | var |
|----|------|------|------|------|------|------|------|------|------|------|------|------|------|----|-----|
| 1  | 4.00 | 4.00 | 4.00 | 1.00 | 5.00 | 1.00 | 5.00 | 1.00 | 5.00 | 3.00 | 2.00 | 3.00 | 4.00 |    |     |
| 2  | 3.00 | 5.00 | 2.00 | 2.00 | 4.00 | 4.00 | 2.00 | 2.00 | 2.00 | 3.00 | 1.00 | 2.00 | 3.33 |    |     |
| 3  | 5.00 | 5.00 | 4.00 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 | 1.00 | 3.00 | 1.00 | 3.00 | 4.67 |    |     |
| 4  | 4.00 | 4.00 | 1.00 | 4.00 | 3.00 | 5.00 | 5.00 | 5.00 | 4.00 | 3.00 | 4.00 | 5.00 | 3.00 |    |     |
| 5  | 2.00 | 4.00 | 4.00 | 4.00 | 2.00 | 5.00 | 5.00 | 1.00 | 4.00 | 5.00 | 4.00 | 4.00 | 3.33 |    |     |
| 6  | 4.00 | 5.00 | 5.00 | 5.00 | 4.00 | 2.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 | 4.67 |    |     |
| 7  | 5.00 | 4.00 | 5.00 | 6.00 | 4.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 4.67 |    |     |
| 8  | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 5.00 | 4.00 | 2.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 |    |     |
| 9  | 4.00 | 4.00 | 4.00 | 4.00 | 5.00 | 4.00 | 2.00 | 1.00 | 2.00 | 1.00 | 3.00 | 4.00 | 4.00 |    |     |
| 10 | 2.00 | 5.00 | 4.00 | 4.00 | 5.00 | 3.00 | 3.00 | 4.00 | 3.00 | 1.00 | 3.00 | 2.00 | 3.67 |    |     |
| 11 |      |      |      |      |      |      |      |      |      |      |      |      |      |    |     |
| 12 |      |      |      |      |      |      |      |      |      |      |      |      |      |    |     |
| 13 |      |      |      |      |      |      |      |      |      |      |      |      |      |    |     |
| 14 |      |      |      |      |      |      |      |      |      |      |      |      |      |    |     |
| 15 |      |      |      |      |      |      |      |      |      |      |      |      |      |    |     |
| 16 |      |      |      |      |      |      |      |      |      |      |      |      |      |    |     |
| 17 |      |      |      |      |      |      |      |      |      |      |      |      |      |    |     |
| 18 |      |      |      |      |      |      |      |      |      |      |      |      |      |    |     |
| 19 |      |      |      |      |      |      |      |      |      |      |      |      |      |    |     |
| 20 |      |      |      |      |      |      |      |      |      |      |      |      |      |    |     |
| 21 |      |      |      |      |      |      |      |      |      |      |      |      |      |    |     |
| 22 |      |      |      |      |      |      |      |      |      |      |      |      |      |    |     |
| 23 |      |      |      |      |      |      |      |      |      |      |      |      |      |    |     |

Data View Variable View

Go to Settings to activate Windows.

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1:

|    | a1   | a2   | a3   |
|----|------|------|------|
| 1  | 4.00 | 4.00 | 4.00 |
| 2  | 3.00 | 5.00 | 2.00 |
| 3  | 5.00 | 5.00 | 4.00 |
| 4  | 4.00 | 4.00 | 1.00 |
| 5  | 2.00 | 4.00 | 4.00 |
| 6  | 4.00 | 5.00 | 5.00 |
| 7  | 5.00 | 4.00 | 5.00 |
| 8  | 5.00 | 5.00 | 5.00 |
| 9  | 4.00 | 4.00 | 4.00 |
| 10 | 2.00 | 5.00 | 4.00 |
| 11 |      |      |      |
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| 21 |      |      |      |
| 22 |      |      |      |
| 23 |      |      |      |

Compute Variable

Target variable: **av\_b**

Numeric Expression: MEAN(b1,b2,b3)

Function group: Statistical

Functions and Special Variables: Cvar, Max, Mean, Median, Min, Sd, Sum, Variance

MEAN(numexpr,numexpr[...]). Numeric. Returns the arithmetic mean of its arguments that have valid, nonmissing values. This function requires two or more arguments, which must be numeric. You can specify a minimum number of valid arguments for this function to be evaluated.

If... (optional case selection condition)

OK Paste Reset Cancel Help

Visible: 13 of 13 Variables

|    | av_a | var | var |
|----|------|-----|-----|
| 00 | 4.00 |     |     |
| 00 | 3.33 |     |     |
| 00 | 4.67 |     |     |
| 00 | 3.00 |     |     |
| 00 | 3.33 |     |     |
| 00 | 4.67 |     |     |
| 00 | 4.67 |     |     |
| 00 | 5.00 |     |     |
| 00 | 4.00 |     |     |
| 00 | 3.67 |     |     |

Data View Variable View

Go to Settings to activate Windows.

IBM SPSS Statistics Processor is ready

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12: b1

Variable View

|    | a1   | a2   | a3   | b1   | b2   | b3   | c1   | c2   | c3   | d1   | d2   | d3   | av_a | av_b | va |
|----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----|
| 1  | 4.00 | 4.00 | 4.00 | 1.00 | 5.00 | 1.00 | 5.00 | 1.00 | 5.00 | 3.00 | 2.00 | 3.00 | 4.00 | 2.33 |    |
| 2  | 3.00 | 5.00 | 2.00 | 2.00 | 4.00 | 4.00 | 2.00 | 2.00 | 2.00 | 3.00 | 1.00 | 2.00 | 3.33 | 3.33 |    |
| 3  | 5.00 | 5.00 | 4.00 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 | 1.00 | 3.00 | 1.00 | 3.00 | 4.67 | 4.67 |    |
| 4  | 4.00 | 4.00 | 1.00 | 4.00 | 3.00 | 5.00 | 5.00 | 5.00 | 4.00 | 3.00 | 4.00 | 5.00 | 3.00 | 4.00 |    |
| 5  | 2.00 | 4.00 | 4.00 | 4.00 | 2.00 | 5.00 | 5.00 | 1.00 | 4.00 | 5.00 | 4.00 | 4.00 | 3.33 | 3.67 |    |
| 6  | 4.00 | 5.00 | 5.00 | 5.00 | 4.00 | 2.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 | 4.67 | 3.67 |    |
| 7  | 5.00 | 4.00 | 5.00 | 6.00 | 4.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 4.67 | 4.67 |    |
| 8  | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 5.00 | 4.00 | 2.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 | 4.67 |    |
| 9  | 4.00 | 4.00 | 4.00 | 4.00 | 5.00 | 4.00 | 2.00 | 1.00 | 2.00 | 1.00 | 3.00 | 4.00 | 4.00 | 4.33 |    |
| 10 | 2.00 | 5.00 | 4.00 | 4.00 | 5.00 | 3.00 | 3.00 | 4.00 | 3.00 | 1.00 | 3.00 | 2.00 | 3.67 | 4.00 |    |
| 11 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |
| 12 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |
| 13 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |
| 14 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |
| 15 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |
| 16 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |
| 17 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |
| 18 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |
| 19 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |
| 20 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |
| 21 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |
| 22 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |
| 23 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |

Variable View

Go to Settings to activate Windows.

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1: av\_b 2.33333333333333

|    | a1   | a2   | a3  |
|----|------|------|-----|
| 1  | 4.00 | 4.00 | 4.0 |
| 2  | 3.00 | 5.00 | 2.0 |
| 3  | 5.00 | 5.00 | 4.0 |
| 4  | 4.00 | 4.00 | 1.0 |
| 5  | 2.00 | 4.00 | 4.0 |
| 6  | 4.00 | 5.00 | 5.0 |
| 7  | 5.00 | 4.00 | 5.0 |
| 8  | 5.00 | 5.00 | 5.0 |
| 9  | 4.00 | 4.00 | 4.0 |
| 10 | 2.00 | 5.00 | 4.0 |
| 11 |      |      |     |
| 12 |      |      |     |
| 13 |      |      |     |
| 14 |      |      |     |
| 15 |      |      |     |
| 16 |      |      |     |
| 17 |      |      |     |
| 18 |      |      |     |
| 19 |      |      |     |
| 20 |      |      |     |
| 21 |      |      |     |
| 22 |      |      |     |
| 23 |      |      |     |

Compute Variable

Target Variable: av\_c

Numeric Expression: MEAN(c1,c2,c3)

Function group: Statistical

Functions and Special Variables: Mean

MEAN(numexpr,numexpr[...]). Numeric. Returns the arithmetic mean of its arguments that have valid, nonmissing values. This function requires two or more arguments, which must be numeric. You can specify a minimum number of valid arguments for this function to be evaluated.

OK Paste Reset Cancel Help

Visible: 14 of 14 Variables

|    | av_a | av_b | var |
|----|------|------|-----|
| 00 | 4.00 | 2.33 |     |
| 00 | 3.33 | 3.33 |     |
| 00 | 4.67 | 4.67 |     |
| 00 | 3.00 | 4.00 |     |
| 00 | 3.33 | 3.67 |     |
| 00 | 4.67 | 3.67 |     |
| 00 | 4.67 | 4.67 |     |
| 00 | 5.00 | 4.67 |     |
| 00 | 4.00 | 4.33 |     |
| 00 | 3.67 | 4.00 |     |

Data View Variable View

Go to Settings to activate Windows.

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1: av\_b 2.3333333333333333 Visible: 15 of 15 Variables

|    | a2  | a3   | b1   | b2   | b3   | c1   | c2   | c3   | d1   | d2   | d3   | av_a | av_b | av_c | a    |
|----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1  | .00 | 4.00 | 4.00 | 1.00 | 5.00 | 1.00 | 5.00 | 1.00 | 5.00 | 3.00 | 2.00 | 3.00 | 4.00 | 2.33 | 3.67 |
| 2  | .00 | 5.00 | 2.00 | 2.00 | 4.00 | 4.00 | 2.00 | 2.00 | 2.00 | 3.00 | 1.00 | 2.00 | 3.33 | 3.33 | 2.00 |
| 3  | .00 | 5.00 | 4.00 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 | 1.00 | 3.00 | 1.00 | 3.00 | 4.67 | 4.67 | 3.00 |
| 4  | .00 | 4.00 | 1.00 | 4.00 | 3.00 | 5.00 | 5.00 | 5.00 | 4.00 | 3.00 | 4.00 | 5.00 | 3.00 | 4.00 | 4.67 |
| 5  | .00 | 4.00 | 4.00 | 4.00 | 2.00 | 5.00 | 5.00 | 1.00 | 4.00 | 5.00 | 4.00 | 4.00 | 3.33 | 3.67 | 3.33 |
| 6  | .00 | 5.00 | 5.00 | 5.00 | 4.00 | 2.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 | 4.67 | 3.67 | 4.33 |
| 7  | .00 | 4.00 | 5.00 | 6.00 | 4.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 4.67 | 4.67 | 4.67 |
| 8  | .00 | 5.00 | 5.00 | 5.00 | 4.00 | 5.00 | 4.00 | 2.00 | 4.00 | 4.00 | 5.00 | 5.00 | 4.67 | 4.67 | 3.33 |
| 9  | .00 | 4.00 | 4.00 | 4.00 | 5.00 | 4.00 | 2.00 | 1.00 | 2.00 | 1.00 | 3.00 | 4.00 | 4.00 | 4.33 | 1.67 |
| 10 | .00 | 5.00 | 4.00 | 4.00 | 5.00 | 3.00 | 3.00 | 4.00 | 3.00 | 1.00 | 3.00 | 2.00 | 3.67 | 4.00 | 3.33 |
| 11 |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 12 |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 13 |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 14 |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 15 |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 16 |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 17 |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 18 |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 19 |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 20 |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 21 |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 22 |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 23 |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |

Data View Variable View

Go to Settings to activate Windows.

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File Edit View Data Transform Analyze Direct Marketing Graphs Utilities Add-ons Window Help

1 : av\_b 2.33333333333333 Visible: 16 of 16 Variables

|    |  | b1   | b2   | b3   | c1   | c2   | c3   | d1   | d2   | d3   | av_a | av_b | av_c | av_d | var  |  |
|----|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|
| 1  |  | 4.00 | 1.00 | 5.00 | 1.00 | 5.00 | 1.00 | 5.00 | 3.00 | 2.00 | 3.00 | 4.00 | 2.33 | 3.67 | 2.67 |  |
| 2  |  | 2.00 | 2.00 | 4.00 | 4.00 | 2.00 | 2.00 | 2.00 | 3.00 | 1.00 | 2.00 | 3.33 | 3.33 | 2.00 | 2.00 |  |
| 3  |  | 4.00 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 | 1.00 | 3.00 | 1.00 | 3.00 | 4.67 | 4.67 | 3.00 | 2.33 |  |
| 4  |  | 1.00 | 4.00 | 3.00 | 5.00 | 5.00 | 5.00 | 4.00 | 3.00 | 4.00 | 5.00 | 3.00 | 4.00 | 4.67 | 4.00 |  |
| 5  |  | 4.00 | 4.00 | 2.00 | 5.00 | 5.00 | 1.00 | 4.00 | 5.00 | 4.00 | 4.00 | 3.33 | 3.67 | 3.33 | 4.33 |  |
| 6  |  | 5.00 | 5.00 | 4.00 | 2.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 | 4.67 | 3.67 | 4.33 | 5.00 |  |
| 7  |  | 5.00 | 6.00 | 4.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 | 4.00 | 4.00 | 4.67 | 4.67 | 4.67 | 4.67 |  |
| 8  |  | 5.00 | 5.00 | 4.00 | 5.00 | 4.00 | 2.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 | 4.67 | 3.33 | 4.67 |  |
| 9  |  | 4.00 | 4.00 | 5.00 | 4.00 | 2.00 | 1.00 | 2.00 | 1.00 | 3.00 | 4.00 | 4.00 | 4.33 | 1.67 | 2.67 |  |
| 10 |  | 4.00 | 4.00 | 5.00 | 3.00 | 3.00 | 4.00 | 3.00 | 1.00 | 3.00 | 2.00 | 3.67 | 4.00 | 3.33 | 2.00 |  |
| 11 |  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |
| 12 |  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |
| 13 |  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |
| 14 |  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |
| 15 |  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |
| 16 |  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |
| 17 |  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |
| 18 |  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |
| 19 |  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |
| 20 |  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |
| 21 |  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |
| 22 |  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |
| 23 |  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |

1

Activate Windows  
Go to Settings to activate Windows.

Data View Variable View

IBM SPSS Statistics Processor is ready

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File Edit View Data Transform Analyze Direct Marketing Graphs Utilities Add-ons Window Help

1: av\_b 2.33333333333333

|    |      | b1   | b2   |
|----|------|------|------|
| 1  | 4.00 | 1.00 | 5.00 |
| 2  | 2.00 | 2.00 | 4.00 |
| 3  | 4.00 | 5.00 | 5.00 |
| 4  | 1.00 | 4.00 | 3.00 |
| 5  | 4.00 | 4.00 | 2.00 |
| 6  | 5.00 | 5.00 | 4.00 |
| 7  | 5.00 | 6.00 | 4.00 |
| 8  | 5.00 | 5.00 | 4.00 |
| 9  | 4.00 | 4.00 | 5.00 |
| 10 | 4.00 | 4.00 | 5.00 |
| 11 |      |      |      |
| 12 |      |      |      |
| 13 |      |      |      |
| 14 |      |      |      |
| 15 |      |      |      |
| 16 |      |      |      |
| 17 |      |      |      |
| 18 |      |      |      |
| 19 |      |      |      |
| 20 |      |      |      |
| 21 |      |      |      |
| 22 |      |      |      |
| 23 |      |      |      |

Compute Variable

Target Variable: av\_total

Numeric Expression: MEAN(av\_a,av\_b,av\_c,av\_d)

Type & Label...

a1  
 a2  
 a3  
 b1  
 b2  
 b3  
 c1  
 c2  
 c3  
 d1  
 d2  
 d3  
 av\_a  
 av\_b  
 av\_c  
 av\_d

+ < > 7 8 9  
 - <= >= 4 5 6  
 \* = ~= 1 2 3  
 / & | 0 .  
 \*\* ~ ( ) Delete

Function group:  
 Miscellaneous  
 Missing Values  
 PDF & Noncentral PDF  
 Random Numbers  
 Search  
 Significance  
 Statistical

Functions and Special Variables:  
 Cvar  
 Max  
 Mean  
 Median  
 Min  
 Sd  
 Sum  
 Variance

MEAN(numexpr,numexpr[...]). Numeric. Returns the arithmetic mean of its arguments that have valid, nonmissing values. This function requires two or more arguments, which must be numeric. You can specify a minimum number of valid arguments for this function to be evaluated.

if... (optional case selection condition)

OK Paste Reset Cancel Help

Visible: 16 of 16 Variables

| av_c | av_d | var |
|------|------|-----|
| 3.67 | 2.67 |     |
| 2.00 | 2.00 |     |
| 3.00 | 2.33 |     |
| 4.67 | 4.00 |     |
| 3.33 | 4.33 |     |
| 4.33 | 5.00 |     |
| 4.67 | 4.67 |     |
| 3.33 | 4.67 |     |
| 1.67 | 2.67 |     |
| 3.33 | 2.00 |     |

Data View Variable View

Activate Windows  
Go to Settings to activate Windows.

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1: av\_b 2.3333333333333333 Visible: 17 of 17 Variables

|    | b2   | b3   | c1   | c2   | c3   | d1   | d2   | d3   | av_a | av_b | av_c | av_d | av_total | var  |
|----|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|
| 1  | 1.00 | 5.00 | 1.00 | 5.00 | 1.00 | 5.00 | 3.00 | 2.00 | 3.00 | 4.00 | 2.33 | 3.67 | 2.67     | 3.17 |
| 2  | 2.00 | 4.00 | 4.00 | 2.00 | 2.00 | 2.00 | 3.00 | 1.00 | 2.00 | 3.33 | 3.33 | 2.00 | 2.00     | 2.67 |
| 3  | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 | 1.00 | 3.00 | 1.00 | 3.00 | 4.67 | 4.67 | 3.00 | 2.33     | 3.67 |
| 4  | 4.00 | 3.00 | 5.00 | 5.00 | 5.00 | 4.00 | 3.00 | 4.00 | 5.00 | 3.00 | 4.00 | 4.67 | 4.00     | 3.92 |
| 5  | 4.00 | 2.00 | 5.00 | 5.00 | 1.00 | 4.00 | 5.00 | 4.00 | 4.00 | 3.33 | 3.67 | 3.33 | 4.33     | 3.67 |
| 6  | 5.00 | 4.00 | 2.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 | 4.67 | 3.67 | 4.33 | 5.00     | 4.42 |
| 7  | 6.00 | 4.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 4.67 | 4.67 | 4.67 | 4.67     | 4.67 |
| 8  | 5.00 | 4.00 | 5.00 | 4.00 | 2.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 | 4.67 | 3.33 | 4.67     | 4.42 |
| 9  | 4.00 | 5.00 | 4.00 | 2.00 | 1.00 | 2.00 | 1.00 | 3.00 | 4.00 | 4.00 | 4.33 | 1.67 | 2.67     | 3.17 |
| 10 | 4.00 | 5.00 | 3.00 | 3.00 | 4.00 | 3.00 | 1.00 | 3.00 | 2.00 | 3.67 | 4.00 | 3.33 | 2.00     | 3.25 |
| 11 |      |      |      |      |      |      |      |      |      |      |      |      |          |      |
| 12 |      |      |      |      |      |      |      |      |      |      |      |      |          |      |
| 13 |      |      |      |      |      |      |      |      |      |      |      |      |          |      |
| 14 |      |      |      |      |      |      |      |      |      |      |      |      |          |      |
| 15 |      |      |      |      |      |      |      |      |      |      |      |      |          |      |
| 16 |      |      |      |      |      |      |      |      |      |      |      |      |          |      |
| 17 |      |      |      |      |      |      |      |      |      |      |      |      |          |      |
| 18 |      |      |      |      |      |      |      |      |      |      |      |      |          |      |
| 19 |      |      |      |      |      |      |      |      |      |      |      |      |          |      |
| 20 |      |      |      |      |      |      |      |      |      |      |      |      |          |      |
| 21 |      |      |      |      |      |      |      |      |      |      |      |      |          |      |
| 22 |      |      |      |      |      |      |      |      |      |      |      |      |          |      |
| 23 |      |      |      |      |      |      |      |      |      |      |      |      |          |      |

1

Data View Variable View

Go to Settings to activate Windows.

IBM SPSS Statistics Processor is ready

**خطوات معامل الثبات كرونباخ ألفا**  
**Reliability Analysis Cronbach's Alpha**

\*Cronbachs Alpha.sav [DataSet0] - IBM SPSS Statistics Data Editor

File Edit View Data Transform Analyze Direct Marketing Graphs Utilities Add-ons Window Help

1: av\_b 2.33333333333333

Visible: 17 of 17 Variables

|    |      | b2   |  | c3   | d1   | d2   | d3   | av_a | av_b | av_c | av_d | av_total | var |
|----|------|------|--|------|------|------|------|------|------|------|------|----------|-----|
| 1  | 1.00 | 5.00 |  | 5.00 | 3.00 | 2.00 | 3.00 | 4.00 | 2.33 | 3.67 | 2.67 | 3.17     |     |
| 2  | 2.00 | 4.00 |  | 2.00 | 3.00 | 1.00 | 2.00 | 3.33 | 3.33 | 2.00 | 2.00 | 2.67     |     |
| 3  | 5.00 | 5.00 |  | 1.00 | 3.00 | 1.00 | 3.00 | 4.67 | 4.67 | 3.00 | 2.33 | 3.67     |     |
| 4  | 4.00 | 3.00 |  | 4.00 | 3.00 | 4.00 | 5.00 | 3.00 | 4.00 | 4.67 | 4.00 | 3.92     |     |
| 5  | 4.00 | 2.00 |  | 4.00 | 5.00 | 4.00 | 4.00 | 3.33 | 3.67 | 3.33 | 4.33 | 3.67     |     |
| 6  | 5.00 | 4.00 |  | 5.00 | 5.00 | 5.00 | 5.00 | 4.67 | 3.67 | 4.33 | 5.00 | 4.42     |     |
| 7  | 6.00 | 4.00 |  | 5.00 | 5.00 | 5.00 | 4.00 | 4.67 | 4.67 | 4.67 | 4.67 | 4.67     |     |
| 8  | 5.00 | 4.00 |  | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 | 4.67 | 3.33 | 4.67 | 4.42     |     |
| 9  | 4.00 | 5.00 |  | 2.00 | 1.00 | 3.00 | 4.00 | 4.00 | 4.33 | 1.67 | 2.67 | 3.17     |     |
| 10 | 4.00 | 5.00 |  | 3.00 | 1.00 | 3.00 | 2.00 | 3.67 | 4.00 | 3.33 | 2.00 | 3.25     |     |
| 11 |      |      |  |      |      |      |      |      |      |      |      |          |     |
| 12 |      |      |  |      |      |      |      |      |      |      |      |          |     |
| 13 |      |      |  |      |      |      |      |      |      |      |      |          |     |
| 14 |      |      |  |      |      |      |      |      |      |      |      |          |     |
| 15 |      |      |  |      |      |      |      |      |      |      |      |          |     |
| 16 |      |      |  |      |      |      |      |      |      |      |      |          |     |
| 17 |      |      |  |      |      |      |      |      |      |      |      |          |     |
| 18 |      |      |  |      |      |      |      |      |      |      |      |          |     |
| 19 |      |      |  |      |      |      |      |      |      |      |      |          |     |
| 20 |      |      |  |      |      |      |      |      |      |      |      |          |     |
| 21 |      |      |  |      |      |      |      |      |      |      |      |          |     |
| 22 |      |      |  |      |      |      |      |      |      |      |      |          |     |
| 23 |      |      |  |      |      |      |      |      |      |      |      |          |     |

Scale

- Reliability Analysis...
- Multidimensional Unfolding (PREFSCAL)...
- Multidimensional Scaling (PROXSCAL)...
- Multidimensional Scaling (ALSCAL)...

Missing Value Analysis...

Multiple Imputation

Complex Samples

Quality Control

ROC Curve...

Data View Variable View

Go to Settings to activate Windows.

IBM SPSS Statistics Processor is ready

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File Edit View Data Transform Analyze Direct Marketing Graphs Utilities Add-ons Window Help

1: av\_b 2.33333333333333 Visible: 17 of 17 Variables

|    | b2   | b3   | c1   | c2   | c3   | d1   | d2   | d3   | av_a | av_b | av_c | av_d | av_total | var  |
|----|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|
| 1  | 1.00 | 5.00 | 1.00 | 5.00 | 1.00 | 5.00 | 3.00 | 2.00 | 3.00 | 4.00 | 2.33 | 3.67 | 2.67     | 3.17 |
| 2  | 2.00 | 4.00 | 4.00 | 2.00 | 2.00 | 2.00 | 3.00 | 1.00 | 2.00 | 3.33 | 3.33 | 2.00 | 2.00     | 2.67 |
| 3  | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 | 1.00 | 3.00 | 1.00 | 3.00 | 4.67 | 4.67 | 3.00 | 2.33     | 3.67 |
| 4  | 4.00 | 3.00 | 5.00 | 5.00 |      |      |      |      |      |      |      |      |          |      |
| 5  | 4.00 | 2.00 | 5.00 | 5.00 |      |      |      |      |      |      |      |      |          |      |
| 6  | 5.00 | 4.00 | 2.00 | 4.00 |      |      |      |      |      |      |      |      |          |      |
| 7  | 6.00 | 4.00 | 4.00 | 4.00 |      |      |      |      |      |      |      |      |          |      |
| 8  | 5.00 | 4.00 | 5.00 | 4.00 |      |      |      |      |      |      |      |      |          |      |
| 9  | 4.00 | 5.00 | 4.00 | 2.00 |      |      |      |      |      |      |      |      |          |      |
| 10 | 4.00 | 5.00 | 3.00 | 3.00 |      |      |      |      |      |      |      |      |          |      |
| 11 |      |      |      |      |      |      |      |      |      |      |      |      |          |      |
| 12 |      |      |      |      |      |      |      |      |      |      |      |      |          |      |
| 13 |      |      |      |      |      |      |      |      |      |      |      |      |          |      |
| 14 |      |      |      |      |      |      |      |      |      |      |      |      |          |      |
| 15 |      |      |      |      |      |      |      |      |      |      |      |      |          |      |
| 16 |      |      |      |      |      |      |      |      |      |      |      |      |          |      |
| 17 |      |      |      |      |      |      |      |      |      |      |      |      |          |      |
| 18 |      |      |      |      |      |      |      |      |      |      |      |      |          |      |
| 19 |      |      |      |      |      |      |      |      |      |      |      |      |          |      |
| 20 |      |      |      |      |      |      |      |      |      |      |      |      |          |      |
| 21 |      |      |      |      |      |      |      |      |      |      |      |      |          |      |
| 22 |      |      |      |      |      |      |      |      |      |      |      |      |          |      |
| 23 |      |      |      |      |      |      |      |      |      |      |      |      |          |      |

Reliability Analysis

Items:

Model: Alpha

Scale label:

OK Paste Reset Cancel Help

Activate Windows  
Go to Settings to activate Windows.

IBM SPSS Statistics Processor is ready

\*Output1 [Document1] - IBM SPSS Statistics Viewer

File Edit View Data Transform Insert Format Analyze Direct Marketing Graphs Utilities Add-ons Window Help

Scale: ALL VARIABLES

## Reliability

[DataSet0] C:\Users\Dr Fisal\Documents\Cronbachs Alpha.sav

### Scale: ALL VARIABLES

#### Case Processing Summary

|       |                       | N  | %     |
|-------|-----------------------|----|-------|
| Cases | Valid                 | 10 | 100.0 |
|       | Excluded <sup>a</sup> | 0  | .0    |
|       | Total                 | 10 | 100.0 |

a. Listwise deletion based on all variables in the procedure.

#### Reliability Statistics

| Cronbach's Alpha | N of Items |
|------------------|------------|
| .729             | 12         |

#### Item-Total Statistics

|    | Scale Mean if Item Deleted | Scale Variance if Item Deleted | Corrected Item-Total Correlation | Cronbach's Alpha if Item Deleted |
|----|----------------------------|--------------------------------|----------------------------------|----------------------------------|
| a1 | 40.6000                    | 53.156                         | .432                             | .704                             |
| a2 | 39.9000                    | 62.100                         | -.094                            | .743                             |
| a3 | 40.6000                    | 53.156                         | .350                             | .713                             |
| b1 | 40.4000                    | 45.156                         | .710                             | .656                             |
| b2 | 40.3000                    | 67.122                         | -.400                            | .781                             |

Activate Windows  
Go to Settings to activate Windows.

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### Reliability Statistics

| Cronbach's Alpha | N of Items |
|------------------|------------|
| .729             | 12         |

\*Cronbachs Alpha.sav [DataSet0] - IBM SPSS Statistics Data Editor

File Edit View Data Transform Analyze Direct Marketing Graphs Utilities Add-ons Window Help

1: av\_b 2.3333333333333333

Visible: 17 of 17 Variables

|    | c3   | d1   | d2   | d3   | av_a | av_b | av_c | av_d | av_total | var |
|----|------|------|------|------|------|------|------|------|----------|-----|
| 1  | 5.00 | 3.00 | 2.00 | 3.00 | 4.00 | 2.33 | 3.67 | 2.67 | 3.17     |     |
| 2  | 2.00 | 3.00 | 1.00 | 2.00 | 3.33 | 3.33 | 2.00 | 2.00 | 2.67     |     |
| 3  | 1.00 | 3.00 | 1.00 | 3.00 | 4.67 | 4.67 | 3.00 | 2.33 | 3.67     |     |
| 4  | 4.00 | 3.00 | 4.00 | 5.00 | 3.00 | 4.00 | 4.67 | 4.00 | 3.92     |     |
| 5  | 4.00 | 5.00 | 4.00 | 4.00 | 3.33 | 3.67 | 3.33 | 4.33 | 3.67     |     |
| 6  | 5.00 | 5.00 | 5.00 | 5.00 | 4.67 | 3.67 | 4.33 | 5.00 | 4.42     |     |
| 7  | 5.00 | 5.00 | 5.00 | 4.00 | 4.67 | 4.67 | 4.67 | 4.67 | 4.67     |     |
| 8  | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 | 4.67 | 3.33 | 4.67 | 4.42     |     |
| 9  | 2.00 | 1.00 | 3.00 | 4.00 | 4.00 | 4.33 | 1.67 | 2.67 | 3.17     |     |
| 10 | 3.00 | 1.00 | 3.00 | 2.00 | 3.67 | 4.00 | 3.33 | 2.00 | 3.25     |     |
| 11 |      |      |      |      |      |      |      |      |          |     |
| 12 |      |      |      |      |      |      |      |      |          |     |
| 13 |      |      |      |      |      |      |      |      |          |     |
| 14 |      |      |      |      |      |      |      |      |          |     |
| 15 |      |      |      |      |      |      |      |      |          |     |
| 16 |      |      |      |      |      |      |      |      |          |     |
| 17 |      |      |      |      |      |      |      |      |          |     |
| 18 |      |      |      |      |      |      |      |      |          |     |
| 19 |      |      |      |      |      |      |      |      |          |     |
| 20 |      |      |      |      |      |      |      |      |          |     |
| 21 |      |      |      |      |      |      |      |      |          |     |
| 22 |      |      |      |      |      |      |      |      |          |     |
| 23 |      |      |      |      |      |      |      |      |          |     |

Scale

- Reliability Analysis...
- Multidimensional Unfolding (PREFSCAL)...
- Multidimensional Scaling (PROXSCAL)...
- Multidimensional Scaling (ALSCAL)...

Missing Value Analysis...

Multiple Imputation

Complex Samples

Quality Control

ROC Curve...

Data View Variable View

Go to Settings to activate Windows.

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\*Cronbachs Alpha.sav [DataSet0] - IBM SPSS Statistics Data Editor

File Edit View Data Transform Analyze Direct Marketing Graphs Utilities Add-ons Window Help

1: av\_b 2.3333333333333333 Visible: 17 of 17 Variables

|    |  | b2   | b3   | c1   | c2   | c3   | d1   | d2   | d3   | av_a | av_b | av_c | av_d | av_total | var  |
|----|--|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|
| 1  |  | 1.00 | 5.00 | 1.00 | 5.00 | 1.00 | 5.00 | 3.00 | 2.00 | 3.00 | 4.00 | 2.33 | 3.67 | 2.67     | 3.17 |
| 2  |  | 2.00 | 4.00 | 4.00 | 2.00 | 2.00 |      |      |      |      | 3.33 | 2.00 | 2.00 | 2.00     | 2.67 |
| 3  |  | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 |      |      |      |      | 4.67 | 3.00 | 2.33 | 3.67     |      |
| 4  |  | 4.00 | 3.00 | 5.00 | 5.00 |      |      |      |      |      | 3.00 | 4.67 | 4.00 | 3.92     |      |
| 5  |  | 4.00 | 2.00 | 5.00 | 5.00 |      |      |      |      |      | 3.67 | 3.33 | 4.33 | 3.67     |      |
| 6  |  | 5.00 | 4.00 | 2.00 | 4.00 |      |      |      |      |      | 3.67 | 4.33 | 5.00 | 4.42     |      |
| 7  |  | 6.00 | 4.00 | 4.00 | 4.00 |      |      |      |      |      | 3.67 | 4.67 | 4.67 | 4.67     |      |
| 8  |  | 5.00 | 4.00 | 5.00 | 4.00 |      |      |      |      |      | 3.67 | 3.33 | 4.67 | 4.42     |      |
| 9  |  | 4.00 | 5.00 | 4.00 | 2.00 |      |      |      |      |      | 3.33 | 1.67 | 2.67 | 3.17     |      |
| 10 |  | 4.00 | 5.00 | 3.00 | 3.00 |      |      |      |      |      | 3.00 | 3.33 | 2.00 | 3.25     |      |
| 11 |  |      |      |      |      |      |      |      |      |      |      |      |      |          |      |
| 12 |  |      |      |      |      |      |      |      |      |      |      |      |      |          |      |
| 13 |  |      |      |      |      |      |      |      |      |      |      |      |      |          |      |
| 14 |  |      |      |      |      |      |      |      |      |      |      |      |      |          |      |
| 15 |  |      |      |      |      |      |      |      |      |      |      |      |      |          |      |
| 16 |  |      |      |      |      |      |      |      |      |      |      |      |      |          |      |
| 17 |  |      |      |      |      |      |      |      |      |      |      |      |      |          |      |
| 18 |  |      |      |      |      |      |      |      |      |      |      |      |      |          |      |
| 19 |  |      |      |      |      |      |      |      |      |      |      |      |      |          |      |
| 20 |  |      |      |      |      |      |      |      |      |      |      |      |      |          |      |
| 21 |  |      |      |      |      |      |      |      |      |      |      |      |      |          |      |
| 22 |  |      |      |      |      |      |      |      |      |      |      |      |      |          |      |
| 23 |  |      |      |      |      |      |      |      |      |      |      |      |      |          |      |

Reliability Analysis: Statistics

Descriptives for

- ☐ Item
- ☐ Scale
- ☐ Scale if item deleted

Inter-Item

- ☐ Correlations
- ☐ Covariances

Summaries

- ☐ Means
- ☐ Variances
- ☐ Covariances
- ☐ Correlations

ANOVA Table

- ☒ None
- ☐ F test
- ☐ Friedman chi-square
- ☐ Cochran chi-square

Model: Two-Way Mixed Type: Consistency

Confidence interval: 95 % Test value: 0

Continue Cancel Help

Data View Variable View

Go to Settings to activate Windows.

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\*Cronbachs Alpha.sav [DataSet0] - IBM SPSS Statistics Data Editor

File Edit View Data Transform Analyze Direct Marketing Graphs Utilities Add-ons Window Help

1: av\_b 2.3333333333333333 Visible: 17 of 17 Variables

|    | b2   | b3   | c1   | c2   | c3   | d1   | d2   | d3   | av_a | av_b | av_c | av_d | av_total | var  |
|----|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|
| 1  | 1.00 | 5.00 | 1.00 | 5.00 | 1.00 | 5.00 | 3.00 | 2.00 | 3.00 | 4.00 | 2.33 | 3.67 | 2.67     | 3.17 |
| 2  | 2.00 | 4.00 | 4.00 | 2.00 | 2.00 |      |      |      |      | 3.33 | 2.00 | 2.00 | 2.67     |      |
| 3  | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 |      |      |      |      | 4.67 | 3.00 | 2.33 | 3.67     |      |
| 4  | 4.00 | 3.00 | 5.00 | 5.00 |      |      |      |      |      | 0.00 | 4.67 | 4.00 | 3.92     |      |
| 5  | 4.00 | 2.00 | 5.00 | 5.00 |      |      |      |      |      | 5.67 | 3.33 | 4.33 | 3.67     |      |
| 6  | 5.00 | 4.00 | 2.00 | 4.00 |      |      |      |      |      | 5.67 | 4.33 | 5.00 | 4.42     |      |
| 7  | 6.00 | 4.00 | 4.00 | 4.00 |      |      |      |      |      | 5.67 | 4.67 | 4.67 | 4.67     |      |
| 8  | 5.00 | 4.00 | 5.00 | 4.00 |      |      |      |      |      | 5.67 | 3.33 | 4.67 | 4.42     |      |
| 9  | 4.00 | 5.00 | 4.00 | 2.00 |      |      |      |      |      | 3.33 | 1.67 | 2.67 | 3.17     |      |
| 10 | 4.00 | 5.00 | 3.00 | 3.00 |      |      |      |      |      | 0.00 | 3.33 | 2.00 | 3.25     |      |
| 11 |      |      |      |      |      |      |      |      |      |      |      |      |          |      |
| 12 |      |      |      |      |      |      |      |      |      |      |      |      |          |      |
| 13 |      |      |      |      |      |      |      |      |      |      |      |      |          |      |
| 14 |      |      |      |      |      |      |      |      |      |      |      |      |          |      |
| 15 |      |      |      |      |      |      |      |      |      |      |      |      |          |      |
| 16 |      |      |      |      |      |      |      |      |      |      |      |      |          |      |
| 17 |      |      |      |      |      |      |      |      |      |      |      |      |          |      |
| 18 |      |      |      |      |      |      |      |      |      |      |      |      |          |      |
| 19 |      |      |      |      |      |      |      |      |      |      |      |      |          |      |
| 20 |      |      |      |      |      |      |      |      |      |      |      |      |          |      |
| 21 |      |      |      |      |      |      |      |      |      |      |      |      |          |      |
| 22 |      |      |      |      |      |      |      |      |      |      |      |      |          |      |
| 23 |      |      |      |      |      |      |      |      |      |      |      |      |          |      |

Reliability Analysis: Statistics

Descriptives for

- ☐ Item
- ☐ Scale
- ☒ Scale if item deleted

Inter-Item

- ☐ Correlations
- ☐ Covariances

Summaries

- ☐ Means
- ☐ Variances
- ☐ Covariances
- ☐ Correlations

ANOVA Table

- ☒ None
- ☐ F test
- ☐ Friedman chi-square
- ☐ Cochran chi-square

Model:

- ☐ Hotelling's T-square
- ☐ Intraclass correlation coefficient

Scale lab

Model: Two-Way Mixed Type: Consistency

Confidence interval: 95 % Test value: 0

Continue Cancel Help

Activate Windows. Go to Settings to activate Windows.

IBM SPSS Statistics Processor is ready

\*Output1 [Document1] - IBM SPSS Statistics Viewer

File Edit View Data Transform Insert Format Analyze Direct Marketing Graphs Utilities Add-ons Window Help

Scale: ALL VARIABLES

- Title
- Case Processing Summary
- Reliability Statistics

.log

Reliability

- Title
- Notes
- Active Dataset
- Scale: ALL VARIABLES
- Title
- Case Processing Summary
- Reliability Statistics
- Item-Total Statistics

.log

Frequencies

- Title
- Notes
- Active Dataset
- Statistics
- Frequency Table
- Title
- a1
- a2
- a3

.log

Reliability

- Title
- Notes
- Active Dataset
- Scale: ALL VARIABLES
- Title
- Case Processing Summary
- Reliability Statistics
- Item-Total Statistics

| Cases | Valid                 | 10 | 100.0 |
|-------|-----------------------|----|-------|
|       | Excluded <sup>a</sup> | 0  | .0    |
|       | Total                 | 10 | 100.0 |

a. Listwise deletion based on all variables in the procedure.

**Reliability Statistics**

| Cronbach's Alpha | N of Items |
|------------------|------------|
| .729             | 12         |

**Item-Total Statistics**

|    | Scale Mean if Item Deleted | Scale Variance if Item Deleted | Corrected Item-Total Correlation | Cronbach's Alpha if Item Deleted |
|----|----------------------------|--------------------------------|----------------------------------|----------------------------------|
| a1 | 40.6000                    | 53.156                         | .432                             | .704                             |
| a2 | 39.9000                    | 62.100                         | -.094                            | .743                             |
| a3 | 40.6000                    | 53.156                         | .350                             | .713                             |
| b1 | 40.4000                    | 45.156                         | .710                             | .656                             |
| b2 | 40.3000                    | 67.122                         | -.400                            | .781                             |
| b3 | 40.7000                    | 59.344                         | .023                             | .754                             |
| c1 | 40.6000                    | 54.267                         | .361                             | .712                             |
| c2 | 41.5000                    | 50.722                         | .342                             | .717                             |
| c3 | 40.9000                    | 50.767                         | .430                             | .702                             |
| d1 | 41.1000                    | 47.878                         | .556                             | .682                             |
| d2 | 41.1000                    | 43.656                         | .748                             | .647                             |
| d3 | 40.7000                    | 49.122                         | .685                             | .672                             |

Activate Windows  
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العمود (Corrected item- total Correlation) يظهر معامل التمييز لكل فقرة ويستحسن حذف الفقرات ذات معامل تمييز موجب منخفض اقل من 0.19 أو الفقرات التي معامل تمييزها سالب لكي نحصل على معامل ثبات قوي ، ومن النتائج السابقة يمكن حذف الفقرات a2, b2, b3

**Item-Total Statistics**

|    | Scale Mean if<br>Item Deleted | Scale<br>Variance if<br>Item Deleted | Corrected<br>Item-Total<br>Correlation | Cronbach's<br>Alpha if Item<br>Deleted |
|----|-------------------------------|--------------------------------------|----------------------------------------|----------------------------------------|
| a1 | 40.6000                       | 53.156                               | .432                                   | .704                                   |
| a2 | 39.9000                       | 62.100                               | -.094                                  | .743                                   |
| a3 | 40.6000                       | 53.156                               | .350                                   | .713                                   |
| b1 | 40.4000                       | 45.156                               | .710                                   | .656                                   |
| b2 | 40.3000                       | 67.122                               | -.400                                  | .781                                   |
| b3 | 40.7000                       | 59.344                               | .023                                   | .754                                   |
| c1 | 40.6000                       | 54.267                               | .361                                   | .712                                   |
| c2 | 41.5000                       | 50.722                               | .342                                   | .717                                   |
| c3 | 40.9000                       | 50.767                               | .430                                   | .702                                   |
| d1 | 41.1000                       | 47.878                               | .556                                   | .682                                   |
| d2 | 41.1000                       | 43.656                               | .748                                   | .647                                   |
| d3 | 40.7000                       | 49.122                               | .685                                   | .672                                   |

\*Cronbachs Alpha.sav [DataSet0] - IBM SPSS Statistics Data Editor

File Edit View Data Transform Analyze Direct Marketing Graphs Utilities Add-ons Window Help

1: a2 4.00 Visible: 17 of 17 Variables

|    | a1   | a2   | a3   | b1   | b2   | b3   | c1   | c2   | c3   | d1   | d2   | d3   | av_a | av_b | av_c |
|----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1  | 4.00 | 4.00 | 4.00 | 1.00 | 5.00 | 1.00 | 5.00 | 1.00 | 5.00 | 3.00 | 2.00 | 3.00 | 4.00 | 2.33 | 3    |
| 2  | 3.00 | 5.00 | 2.00 | 2.00 | 4.00 | 4.00 | 2.00 | 2.00 | 2.00 | 3.00 | 1.00 | 2.00 | 3.33 | 3.33 | 2    |
| 3  | 5.00 | 5.00 | 4.00 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 | 1.00 | 3.00 | 1.00 | 3.00 | 4.67 | 4.67 | 3    |
| 4  | 4.00 | 4.00 | 1.00 | 4.00 | 3.00 | 5.00 | 5.00 | 5.00 | 4.00 | 3.00 | 4.00 | 5.00 | 3.00 | 4.00 | 4    |
| 5  | 2.00 | 4.00 | 4.00 | 4.00 | 2.00 | 5.00 | 5.00 | 1.00 | 4.00 | 5.00 | 4.00 | 4.00 | 3.33 | 3.67 | 3    |
| 6  | 4.00 | 5.00 | 5.00 | 5.00 | 4.00 | 2.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 | 4.67 | 3.67 | 4    |
| 7  | 5.00 | 4.00 | 5.00 | 6.00 | 4.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 4.67 | 4.67 | 4    |
| 8  | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 5.00 | 4.00 | 2.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 | 4.67 | 3    |
| 9  | 4.00 | 4.00 | 4.00 | 4.00 | 5.00 | 4.00 | 2.00 | 1.00 | 2.00 | 1.00 | 3.00 | 4.00 | 4.00 | 4.33 | 1    |
| 10 | 2.00 | 5.00 | 4.00 | 4.00 | 5.00 | 3.00 | 3.00 | 4.00 | 3.00 | 1.00 | 3.00 | 2.00 | 3.67 | 4.00 | 3    |
| 11 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 12 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 13 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 14 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 15 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 16 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 17 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 18 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 19 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 20 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 21 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 22 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 23 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |

Data View Variable View

Go to Settings to activate Windows.

IBM SPSS Statistics Processor is ready

\*Cronbachs Alpha.sav [DataSet0] - IBM SPSS Statistics Data Editor

File Edit View Data Transform Analyze Direct Marketing Graphs Utilities Add-ons Window Help

Visible: 17 of 17 Variables

|    | a1   | a2   | a3   | b1   | b2   | b3   | c1   | c2   | c3   | d1   | d2   | d3   | av_a | av_b | av_c |
|----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1  | 4.00 |      |      | 1.00 | 5.00 | 1.00 | 5.00 | 1.00 | 5.00 | 3.00 | 2.00 | 3.00 | 4.00 | 2.33 | 3.00 |
| 2  | 3.00 |      |      | 2.00 | 4.00 | 4.00 | 2.00 | 2.00 | 2.00 | 3.00 | 1.00 | 2.00 | 3.33 | 3.33 | 2.00 |
| 3  | 5.00 |      |      | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 | 1.00 | 3.00 | 1.00 | 3.00 | 4.67 | 4.67 | 3.00 |
| 4  | 4.00 |      |      | 4.00 | 3.00 | 5.00 | 5.00 | 5.00 | 4.00 | 3.00 | 4.00 | 5.00 | 3.00 | 4.00 | 4.00 |
| 5  | 2.00 |      |      | 4.00 | 2.00 | 5.00 | 5.00 | 1.00 | 4.00 | 5.00 | 4.00 | 4.00 | 3.33 | 3.67 | 3.00 |
| 6  | 4.00 |      |      | 5.00 | 4.00 | 2.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 | 4.67 | 3.67 | 4.00 |
| 7  | 5.00 |      |      | 6.00 | 4.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 4.67 | 4.67 | 4.00 |
| 8  | 5.00 |      |      | 5.00 | 4.00 | 5.00 | 4.00 | 2.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 | 4.67 | 3.00 |
| 9  | 4.00 |      |      | 4.00 | 5.00 | 4.00 | 2.00 | 1.00 | 2.00 | 1.00 | 3.00 | 4.00 | 4.00 | 4.33 | 1.00 |
| 10 | 2.00 | 5.00 | 4.00 | 4.00 | 5.00 | 3.00 | 3.00 | 4.00 | 3.00 | 1.00 | 3.00 | 2.00 | 3.67 | 4.00 | 3.00 |
| 11 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 12 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 13 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 14 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 15 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 16 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 17 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 18 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 19 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 20 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 21 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 22 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 23 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |

1

Data View Variable View

Go to Settings to activate Windows.

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\*Cronbachs Alpha.sav [DataSet0] - IBM SPSS Statistics Data Editor

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Visible: 14 of 14 Variables

|    | a1   | a3   | b1   | c1   | c2   | c3   | d1   | d2   | d3   | av_a | av_b | av_c | av_d | av_total |  |
|----|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|--|
| 1  | 4.00 | 4.00 | 1.00 | 5.00 | 1.00 | 5.00 | 3.00 | 2.00 | 3.00 | 4.00 | 2.33 | 3.67 | 2.67 | 3.17     |  |
| 2  | 3.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 3.00 | 1.00 | 2.00 | 3.33 | 3.33 | 2.00 | 2.00 | 2.67     |  |
| 3  | 5.00 | 4.00 | 5.00 | 4.00 | 4.00 | 1.00 | 3.00 | 1.00 | 3.00 | 4.67 | 4.67 | 3.00 | 2.33 | 3.67     |  |
| 4  | 4.00 | 1.00 | 4.00 | 5.00 | 5.00 | 4.00 | 3.00 | 4.00 | 5.00 | 3.00 | 4.00 | 4.67 | 4.00 | 3.92     |  |
| 5  | 2.00 | 4.00 | 4.00 | 5.00 | 1.00 | 4.00 | 5.00 | 4.00 | 4.00 | 3.33 | 3.67 | 3.33 | 4.33 | 3.67     |  |
| 6  | 4.00 | 5.00 | 5.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 | 4.67 | 3.67 | 4.33 | 5.00 | 4.42     |  |
| 7  | 5.00 | 5.00 | 6.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 4.67 | 4.67 | 4.67 | 4.67 | 4.67     |  |
| 8  | 5.00 | 5.00 | 5.00 | 4.00 | 2.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 | 4.67 | 3.33 | 4.67 | 4.42     |  |
| 9  | 4.00 | 4.00 | 4.00 | 2.00 | 1.00 | 2.00 | 1.00 | 3.00 | 4.00 | 4.00 | 4.33 | 1.67 | 2.67 | 3.17     |  |
| 10 | 2.00 | 4.00 | 4.00 | 3.00 | 4.00 | 3.00 | 1.00 | 3.00 | 2.00 | 3.67 | 4.00 | 3.33 | 2.00 | 3.25     |  |
| 11 |      |      |      |      |      |      |      |      |      |      |      |      |      |          |  |
| 12 |      |      |      |      |      |      |      |      |      |      |      |      |      |          |  |
| 13 |      |      |      |      |      |      |      |      |      |      |      |      |      |          |  |
| 14 |      |      |      |      |      |      |      |      |      |      |      |      |      |          |  |
| 15 |      |      |      |      |      |      |      |      |      |      |      |      |      |          |  |
| 16 |      |      |      |      |      |      |      |      |      |      |      |      |      |          |  |
| 17 |      |      |      |      |      |      |      |      |      |      |      |      |      |          |  |
| 18 |      |      |      |      |      |      |      |      |      |      |      |      |      |          |  |
| 19 |      |      |      |      |      |      |      |      |      |      |      |      |      |          |  |
| 20 |      |      |      |      |      |      |      |      |      |      |      |      |      |          |  |
| 21 |      |      |      |      |      |      |      |      |      |      |      |      |      |          |  |
| 22 |      |      |      |      |      |      |      |      |      |      |      |      |      |          |  |
| 23 |      |      |      |      |      |      |      |      |      |      |      |      |      |          |  |

1

Data View Variable View

Go to Settings to activate Windows.

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1: av\_b 2.3333333333333333

Visible: 17 of 17 Variables

|    |      | b2   |  | c3   | d1   | d2   | d3   | av_a | av_b | av_c | av_d | av_total | var |
|----|------|------|--|------|------|------|------|------|------|------|------|----------|-----|
| 1  | 1.00 | 5.00 |  | 5.00 | 3.00 | 2.00 | 3.00 | 4.00 | 2.33 | 3.67 | 2.67 | 3.17     |     |
| 2  | 2.00 | 4.00 |  | 2.00 | 3.00 | 1.00 | 2.00 | 3.33 | 3.33 | 2.00 | 2.00 | 2.67     |     |
| 3  | 5.00 | 5.00 |  | 1.00 | 3.00 | 1.00 | 3.00 | 4.67 | 4.67 | 3.00 | 2.33 | 3.67     |     |
| 4  | 4.00 | 3.00 |  | 4.00 | 3.00 | 4.00 | 5.00 | 3.00 | 4.00 | 4.67 | 4.00 | 3.92     |     |
| 5  | 4.00 | 2.00 |  | 4.00 | 5.00 | 4.00 | 4.00 | 3.33 | 3.67 | 3.33 | 4.33 | 3.67     |     |
| 6  | 5.00 | 4.00 |  | 5.00 | 5.00 | 5.00 | 5.00 | 4.67 | 3.67 | 4.33 | 5.00 | 4.42     |     |
| 7  | 6.00 | 4.00 |  | 5.00 | 5.00 | 5.00 | 4.00 | 4.67 | 4.67 | 4.67 | 4.67 | 4.67     |     |
| 8  | 5.00 | 4.00 |  | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 | 4.67 | 3.33 | 4.67 | 4.42     |     |
| 9  | 4.00 | 5.00 |  | 2.00 | 1.00 | 3.00 | 4.00 | 4.00 | 4.33 | 1.67 | 2.67 | 3.17     |     |
| 10 | 4.00 | 5.00 |  | 3.00 | 1.00 | 3.00 | 2.00 | 3.67 | 4.00 | 3.33 | 2.00 | 3.25     |     |
| 11 |      |      |  |      |      |      |      |      |      |      |      |          |     |
| 12 |      |      |  |      |      |      |      |      |      |      |      |          |     |
| 13 |      |      |  |      |      |      |      |      |      |      |      |          |     |
| 14 |      |      |  |      |      |      |      |      |      |      |      |          |     |
| 15 |      |      |  |      |      |      |      |      |      |      |      |          |     |
| 16 |      |      |  |      |      |      |      |      |      |      |      |          |     |
| 17 |      |      |  |      |      |      |      |      |      |      |      |          |     |
| 18 |      |      |  |      |      |      |      |      |      |      |      |          |     |
| 19 |      |      |  |      |      |      |      |      |      |      |      |          |     |
| 20 |      |      |  |      |      |      |      |      |      |      |      |          |     |
| 21 |      |      |  |      |      |      |      |      |      |      |      |          |     |
| 22 |      |      |  |      |      |      |      |      |      |      |      |          |     |
| 23 |      |      |  |      |      |      |      |      |      |      |      |          |     |

Reliability Analysis...

Multidimensional Unfolding (PREFSCAL)...

Multidimensional Scaling (PROXSCAL)...

Multidimensional Scaling (ALSCAL)...

Missing Value Analysis...

Multiple Imputation

Complex Samples

Quality Control

ROC Curve...

Data View Variable View

Go to Settings to activate Windows.

IBM SPSS Statistics Processor is ready

\*Cronbachs Alpha.sav [DataSet0] - IBM SPSS Statistics Data Editor

File Edit View Data Transform Analyze Direct Marketing Graphs Utilities Add-ons Window Help

1: av\_b 2.33333333333333 Visible: 17 of 17 Variables

|    | b2   | b3   | c1   | c2   | c3   | d1   | d2   | d3   | av_a | av_b | av_c | av_d | av_total | var  |
|----|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|
| 1  | 1.00 | 5.00 | 1.00 | 5.00 | 1.00 | 5.00 | 3.00 | 2.00 | 3.00 | 4.00 | 2.33 | 3.67 | 2.67     | 3.17 |
| 2  | 2.00 | 4.00 | 4.00 | 2.00 | 2.00 | 2.00 | 3.00 | 1.00 | 2.00 | 3.33 | 3.33 | 2.00 | 2.00     | 2.67 |
| 3  | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 | 1.00 | 3.00 | 1.00 | 3.00 | 4.67 | 4.67 | 3.00 | 2.33     | 3.67 |
| 4  | 4.00 | 3.00 | 5.00 | 5.00 |      |      |      |      |      |      |      | 4.67 | 4.00     | 3.92 |
| 5  | 4.00 | 2.00 | 5.00 | 5.00 |      |      |      |      |      |      |      | 3.33 | 4.33     | 3.67 |
| 6  | 5.00 | 4.00 | 2.00 | 4.00 |      |      |      |      |      |      |      | 4.33 | 5.00     | 4.42 |
| 7  | 6.00 | 4.00 | 4.00 | 4.00 |      |      |      |      |      |      |      | 4.67 | 4.67     | 4.67 |
| 8  | 5.00 | 4.00 | 5.00 | 4.00 |      |      |      |      |      |      |      | 3.33 | 4.67     | 4.42 |
| 9  | 4.00 | 5.00 | 4.00 | 2.00 |      |      |      |      |      |      |      | 1.67 | 2.67     | 3.17 |
| 10 | 4.00 | 5.00 | 3.00 | 3.00 |      |      |      |      |      |      |      | 3.33 | 2.00     | 3.25 |
| 11 |      |      |      |      |      |      |      |      |      |      |      |      |          |      |
| 12 |      |      |      |      |      |      |      |      |      |      |      |      |          |      |
| 13 |      |      |      |      |      |      |      |      |      |      |      |      |          |      |
| 14 |      |      |      |      |      |      |      |      |      |      |      |      |          |      |
| 15 |      |      |      |      |      |      |      |      |      |      |      |      |          |      |
| 16 |      |      |      |      |      |      |      |      |      |      |      |      |          |      |
| 17 |      |      |      |      |      |      |      |      |      |      |      |      |          |      |
| 18 |      |      |      |      |      |      |      |      |      |      |      |      |          |      |
| 19 |      |      |      |      |      |      |      |      |      |      |      |      |          |      |
| 20 |      |      |      |      |      |      |      |      |      |      |      |      |          |      |
| 21 |      |      |      |      |      |      |      |      |      |      |      |      |          |      |
| 22 |      |      |      |      |      |      |      |      |      |      |      |      |          |      |
| 23 |      |      |      |      |      |      |      |      |      |      |      |      |          |      |

Reliability Analysis

Items:

Model: Alpha

Scale label:

OK Paste Reset Cancel Help

Activate Windows  
Go to Settings to activate Windows.

IBM SPSS Statistics Processor is ready

\*Output1 [Document1] - IBM SPSS Statistics Viewer

File Edit View Data Transform Insert Format Analyze Direct Marketing Graphs Windows Help

Double-click to activate

Frequency Table

- Title
- a1
- a2
- a3

Log

Reliability

- Title
- Notes
- Active Dataset
- Scale: ALL VAR
- Title
- Case Proc
- Reliability
- Item-Total

Log

Reliability

- Title
- Notes
- Active Dataset
- Scale: ALL VAR
- Title
- Case Proc
- Reliability
- Item-Total

Log

Reliability

- Title
- Notes
- Active Dataset
- Scale: ALL VAR
- Title
- Case Proc
- Reliability
- Item-Total

1

## Reliability

[DataSet0] C:\Users\Dr Fisal\Documents\Cronbachs Alpha.sav

### Scale: ALL VARIABLES

#### Case Processing Summary

|                       | N  | %     |
|-----------------------|----|-------|
| Cases Valid           | 10 | 100.0 |
| Excluded <sup>a</sup> | 0  | .0    |
| Total                 | 10 | 100.0 |

a. Listwise deletion based on all variables in the procedure.

#### Reliability Statistics

| Cronbach's Alpha | N of Items |
|------------------|------------|
| .820             | 9          |

#### Item-Total Statistics

|    | Scale Mean if Item Deleted | Scale Variance if Item Deleted | Corrected Item-Total Correlation | Cronbach's Alpha if Item Deleted |
|----|----------------------------|--------------------------------|----------------------------------|----------------------------------|
| a1 | 28.3000                    | 56.456                         | .373                             | .817                             |
| a3 | 28.3000                    | 55.567                         | .346                             | .821                             |
| b1 | 28.1000                    | 49.211                         | .606                             | .791                             |
| c1 | 28.3000                    | 55.122                         | .456                             | .809                             |
| c2 | 29.2000                    | 53.956                         | .302                             | .833                             |

Activate Windows  
Go to Settings to activate Windows.

IBM SPSS Statistics Processor is ready

### Reliability Statistics

| Cronbach's Alpha | N of Items |
|------------------|------------|
| .820             | 9          |

لإيجاد صدق الاتساق الداخلي للفقرات نوجد معاملات الارتباط بين معدل كل مجال والمعدل الكلي للفقرات وفي النهاية تكون النتائج كالتالي:

\*Cronbachs Alpha.sav [DataSet0] - IBM SPSS Statistics Data Editor

File Edit View Data Transform Analyze Direct Marketing Graphs Utilities Add-ons Window Help

1: c1 5.00

Visible: 14 of 14 Variables

|    | a1   | a3   | c2   | c3   | d1   | d2   | d3   | av_a | av_b | av_c | av_d | av_total |
|----|------|------|------|------|------|------|------|------|------|------|------|----------|
| 1  | 4.00 | 4.00 | 1.00 | 5.00 | 3.00 | 2.00 | 3.00 | 4.00 | 2.33 | 3.67 | 2.67 | 3.17     |
| 2  | 3.00 | 2.00 | 2.00 | 2.00 | 3.00 | 1.00 | 2.00 | 3.33 | 3.33 | 2.00 | 2.00 | 2.67     |
| 3  | 5.00 | 4.00 | 4.00 | 1.00 | 3.00 | 1.00 | 3.00 | 4.67 | 4.67 | 3.00 | 2.33 | 3.67     |
| 4  | 4.00 | 1.00 |      |      | 3.00 | 4.00 | 5.00 | 3.00 | 4.00 | 4.67 | 4.00 | 3.92     |
| 5  | 2.00 | 4.00 |      |      | 5.00 | 4.00 | 4.00 | 3.33 | 3.67 | 3.33 | 4.33 | 3.67     |
| 6  | 4.00 | 5.00 |      |      | 5.00 | 5.00 | 5.00 | 4.67 | 3.67 | 4.33 | 5.00 | 4.42     |
| 7  | 5.00 | 5.00 |      |      | 5.00 | 5.00 | 4.00 | 4.67 | 4.67 | 4.67 | 4.67 | 4.67     |
| 8  | 5.00 | 5.00 | 2.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 | 4.67 | 3.33 | 4.67 | 4.42     |
| 9  | 4.00 | 4.00 | 1.00 | 2.00 | 1.00 | 3.00 | 4.00 | 4.00 | 4.33 | 1.67 | 2.67 | 3.17     |
| 10 | 2.00 | 4.00 | 4.00 | 3.00 | 1.00 | 3.00 | 2.00 | 3.67 | 4.00 | 3.33 | 2.00 | 3.25     |
| 11 |      |      |      |      |      |      |      |      |      |      |      |          |
| 12 |      |      |      |      |      |      |      |      |      |      |      |          |
| 13 |      |      |      |      |      |      |      |      |      |      |      |          |
| 14 |      |      |      |      |      |      |      |      |      |      |      |          |
| 15 |      |      |      |      |      |      |      |      |      |      |      |          |
| 16 |      |      |      |      |      |      |      |      |      |      |      |          |
| 17 |      |      |      |      |      |      |      |      |      |      |      |          |
| 18 |      |      |      |      |      |      |      |      |      |      |      |          |
| 19 |      |      |      |      |      |      |      |      |      |      |      |          |
| 20 |      |      |      |      |      |      |      |      |      |      |      |          |
| 21 |      |      |      |      |      |      |      |      |      |      |      |          |
| 22 |      |      |      |      |      |      |      |      |      |      |      |          |
| 23 |      |      |      |      |      |      |      |      |      |      |      |          |

11 Bivariate...  
6 Partial...  
6 Distances...

Activate Windows  
Go to Settings to activate Windows.

Data View Variable View

Bivariate IBM SPSS Statistics Processor is ready

\*Cronbachs Alpha.sav [DataSet0] - IBM SPSS Statistics Data Editor

File Edit View Data Transform Analyze Direct Marketing Graphs Utilities Add-ons Window Help

1: c1 5.00 Visible: 14 of 14 Variables

|    | a1   | a3   | b1   | c1   | c2   | c3   | d1   | d2   | d3   | av_a | av_b | av_c | av_d | av_total |
|----|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|
| 1  | 4.00 | 4.00 | 1.00 | 5.00 | 1.00 | 5.00 | 3.00 | 2.00 | 3.00 | 4.00 | 2.33 | 3.67 | 2.67 | 3.17     |
| 2  | 3.00 | 2.00 | 2.00 | 2.00 |      |      |      |      |      |      | 3.33 | 2.00 | 2.00 | 2.67     |
| 3  | 5.00 | 4.00 | 5.00 | 4.00 |      |      |      |      |      |      | 4.67 | 3.00 | 2.33 | 3.67     |
| 4  | 4.00 | 1.00 | 4.00 | 5.00 |      |      |      |      |      |      | 4.00 | 4.67 | 4.00 | 3.92     |
| 5  | 2.00 | 4.00 | 4.00 | 5.00 |      |      |      |      |      |      | 3.67 | 3.33 | 4.33 | 3.67     |
| 6  | 4.00 | 5.00 | 5.00 | 4.00 |      |      |      |      |      |      | 3.67 | 4.33 | 5.00 | 4.42     |
| 7  | 5.00 | 5.00 | 6.00 | 4.00 |      |      |      |      |      |      | 4.67 | 4.67 | 4.67 | 4.67     |
| 8  | 5.00 | 5.00 | 5.00 | 4.00 |      |      |      |      |      |      | 4.67 | 3.33 | 4.67 | 4.42     |
| 9  | 4.00 | 4.00 | 4.00 | 2.00 |      |      |      |      |      |      | 4.33 | 1.67 | 2.67 | 3.17     |
| 10 | 2.00 | 4.00 | 4.00 | 3.00 |      |      |      |      |      |      | 4.00 | 3.33 | 2.00 | 3.25     |
| 11 |      |      |      |      |      |      |      |      |      |      |      |      |      |          |
| 12 |      |      |      |      |      |      |      |      |      |      |      |      |      |          |
| 13 |      |      |      |      |      |      |      |      |      |      |      |      |      |          |
| 14 |      |      |      |      |      |      |      |      |      |      |      |      |      |          |
| 15 |      |      |      |      |      |      |      |      |      |      |      |      |      |          |
| 16 |      |      |      |      |      |      |      |      |      |      |      |      |      |          |
| 17 |      |      |      |      |      |      |      |      |      |      |      |      |      |          |
| 18 |      |      |      |      |      |      |      |      |      |      |      |      |      |          |
| 19 |      |      |      |      |      |      |      |      |      |      |      |      |      |          |
| 20 |      |      |      |      |      |      |      |      |      |      |      |      |      |          |
| 21 |      |      |      |      |      |      |      |      |      |      |      |      |      |          |
| 22 |      |      |      |      |      |      |      |      |      |      |      |      |      |          |
| 23 |      |      |      |      |      |      |      |      |      |      |      |      |      |          |

Bivariate Correlations

Variables:

Correlation Coefficients

☒ Pearson ☐ Kendall's tau-b ☐ Spearman

Test of Significance

☒ Two-tailed ☐ One-tailed

☒ Flag significant correlations

OK Paste Reset Cancel Help

Data View Variable View

Go to Settings to activate Windows.

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1: c1 5.00 Visible: 14 of 14 Variables

|    | a1   | a3   | b1   | c1   | c2   | c3   | d1   | d2   | d3   | av_a | av_b | av_c | av_d | av_total |
|----|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|
| 1  | 4.00 | 4.00 | 1.00 | 5.00 | 1.00 | 5.00 | 3.00 | 2.00 | 3.00 | 4.00 | 2.33 | 3.67 | 2.67 | 3.17     |
| 2  | 3.00 | 2.00 | 2.00 | 2.00 |      |      |      |      |      |      | 3.33 | 2.00 | 2.00 | 2.67     |
| 3  | 5.00 | 4.00 | 5.00 | 4.00 |      |      |      |      |      |      | 4.67 | 3.00 | 2.33 | 3.67     |
| 4  | 4.00 | 1.00 | 4.00 | 5.00 |      |      |      |      |      |      | 4.00 | 4.67 | 4.00 | 3.92     |
| 5  | 2.00 | 4.00 | 4.00 | 5.00 |      |      |      |      |      |      | 3.67 | 3.33 | 4.33 | 3.67     |
| 6  | 4.00 | 5.00 | 5.00 | 4.00 |      |      |      |      |      |      | 3.67 | 4.33 | 5.00 | 4.42     |
| 7  | 5.00 | 5.00 | 6.00 | 4.00 |      |      |      |      |      |      | 4.67 | 4.67 | 4.67 | 4.67     |
| 8  | 5.00 | 5.00 | 5.00 | 4.00 |      |      |      |      |      |      | 4.67 | 3.33 | 4.67 | 4.42     |
| 9  | 4.00 | 4.00 | 4.00 | 2.00 |      |      |      |      |      |      | 4.33 | 1.67 | 2.67 | 3.17     |
| 10 | 2.00 | 4.00 | 4.00 | 3.00 |      |      |      |      |      |      | 4.00 | 3.33 | 2.00 | 3.25     |
| 11 |      |      |      |      |      |      |      |      |      |      |      |      |      |          |
| 12 |      |      |      |      |      |      |      |      |      |      |      |      |      |          |
| 13 |      |      |      |      |      |      |      |      |      |      |      |      |      |          |
| 14 |      |      |      |      |      |      |      |      |      |      |      |      |      |          |
| 15 |      |      |      |      |      |      |      |      |      |      |      |      |      |          |
| 16 |      |      |      |      |      |      |      |      |      |      |      |      |      |          |
| 17 |      |      |      |      |      |      |      |      |      |      |      |      |      |          |
| 18 |      |      |      |      |      |      |      |      |      |      |      |      |      |          |
| 19 |      |      |      |      |      |      |      |      |      |      |      |      |      |          |
| 20 |      |      |      |      |      |      |      |      |      |      |      |      |      |          |
| 21 |      |      |      |      |      |      |      |      |      |      |      |      |      |          |
| 22 |      |      |      |      |      |      |      |      |      |      |      |      |      |          |
| 23 |      |      |      |      |      |      |      |      |      |      |      |      |      |          |

Bivariate Correlations

Variables:

Correlation Coefficients

☒ Pearson ☐ Kendall's tau-b ☐ Spearman

Test of Significance

☒ Two-tailed ☐ One-tailed

☒ Flag significant correlations

OK Paste Reset Cancel Help

Data View Variable View

Go to Settings to activate Windows.

IBM SPSS Statistics Processor is ready

SPSS Statistics Viewer window showing the output of a Correlations analysis.

**Correlations**

[DataSet0] C:\Users\Dr Fisal\Documents\Cronbachs Alpha.sav

|          |                     | av_a | av_b | av_c  | av_d   | av_total |
|----------|---------------------|------|------|-------|--------|----------|
| av_a     | Pearson Correlation | 1    | .442 | .137  | .350   | .603     |
|          | Sig. (2-tailed)     |      | .201 | .706  | .322   | .065     |
|          | N                   | 10   | 10   | 10    | 10     | 10       |
| av_b     | Pearson Correlation | .442 | 1    | .023  | .259   | .526     |
|          | Sig. (2-tailed)     | .201 |      | .949  | .470   | .118     |
|          | N                   | 10   | 10   | 10    | 10     | 10       |
| av_c     | Pearson Correlation | .137 | .023 | 1     | .658*  | .735*    |
|          | Sig. (2-tailed)     | .706 | .949 |       | .039   | .015     |
|          | N                   | 10   | 10   | 10    | 10     | 10       |
| av_d     | Pearson Correlation | .350 | .259 | .658* | 1      | .882**   |
|          | Sig. (2-tailed)     | .322 | .470 | .039  |        | .001     |
|          | N                   | 10   | 10   | 10    | 10     | 10       |
| av_total | Pearson Correlation | .603 | .526 | .735* | .882** | 1        |
|          | Sig. (2-tailed)     | .065 | .118 | .015  | .001   |          |
|          | N                   | 10   | 10   | 10    | 10     | 10       |

\*. Correlation is significant at the 0.05 level (2-tailed).  
 \*\*. Correlation is significant at the 0.01 level (2-tailed).

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وتعتبر معاملات الارتباط السابقة معاملات ثبات داخلي مقبولة ودالة إحصائياً.  
وبذلك يكون الباحث قد تأكد من صدق وثبات فقرات الاستبانة وبذلك أصبحت  
الاستبانة صالحة للتطبيق على عينة الدراسة الأساسية.

## → Correlations

|          |                     | Correlations |        |        |        |        |
|----------|---------------------|--------------|--------|--------|--------|--------|
|          |                     | المحور 3     | 20م    | 21م    | 22م    | 23م    |
| المحور 3 | Pearson Correlation | 1            | .873** | .799** | .903** | .889** |
|          | Sig. (2-tailed)     |              | .000   | .000   | .000   | .000   |
|          | N                   | 30           | 30     | 30     | 30     | 30     |
| 20م      | Pearson Correlation | .873**       | 1      | .643** | .721** | .661** |
|          | Sig. (2-tailed)     | .000         |        | .000   | .000   | .000   |
|          | N                   | 30           | 30     | 30     | 30     | 30     |
| 21م      | Pearson Correlation | .799**       | .643** | 1      | .574** | .596** |
|          | Sig. (2-tailed)     | .000         | .000   |        | .001   | .001   |
|          | N                   | 30           | 30     | 30     | 30     | 30     |
| 22م      | Pearson Correlation | .903**       | .721** | .574** | 1      | .809** |
|          | Sig. (2-tailed)     | .000         | .000   | .001   |        | .000   |
|          | N                   | 30           | 30     | 30     | 30     | 30     |
| 23م      | Pearson Correlation | .889**       | .661** | .596** | .809** | 1      |
|          | Sig. (2-tailed)     | .000         | .000   | .001   | .000   |        |

Double-click to activate

|    | a1   | a2   | a3   | b1   | b2   | b3   | c1   | c2   | c3   | d1   | d2   | d3   |
|----|------|------|------|------|------|------|------|------|------|------|------|------|
| 1  | 4.00 | 4.00 | 4.00 | 1.00 | 5.00 | 1.00 | 5.00 | 1.00 | 5.00 | 3.00 | 2.00 | 3.00 |
| 2  | 3.00 | 5.00 | 2.00 | 2.00 | 4.00 | 4.00 | 2.00 | 2.00 | 2.00 | 3.00 | 1.00 | 2.00 |
| 3  | 5.00 | 5.00 | 4.00 | 5.00 | 5.00 | 4.00 | 4.00 | 4.00 | 1.00 | 3.00 | 1.00 | 3.00 |
| 4  | 4.00 | 4.00 | 1.00 | 4.00 | 3.00 | 5.00 | 5.00 | 5.00 | 4.00 | 3.00 | 4.00 | 5.00 |
| 5  | 2.00 | 4.00 | 4.00 | 4.00 | 2.00 | 5.00 | 5.00 | 1.00 | 4.00 | 5.00 | 4.00 | 4.00 |
| 6  | 4.00 | 5.00 | 5.00 | 5.00 | 4.00 | 2.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 7  | 5.00 | 4.00 | 5.00 | 6.00 | 4.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 |
| 8  | 5.00 | 5.00 | 5.00 | 5.00 | 4.00 | 5.00 | 4.00 | 2.00 | 4.00 | 4.00 | 5.00 | 5.00 |
| 9  | 4.00 | 4.00 | 4.00 | 4.00 | 5.00 | 4.00 | 2.00 | 1.00 | 2.00 | 1.00 | 3.00 | 4.00 |
| 10 | 2.00 | 5.00 | 4.00 | 4.00 | 5.00 | 3.00 | 3.00 | 4.00 | 3.00 | 1.00 | 3.00 | 2.00 |

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