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(Ibrahim, 1990)

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( $\alpha_2=0.89$   $\alpha_1=0.91$ :

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.(Pajares, 1992)

.(Carpenter, Fennema, Peterson, & Carey, 1988)

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(NCTM, 2000)

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(NCTM, 2000, "

p.18)

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\_\_\_\_\_ (37 2006 )

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" (Fishbein and Ajzen, 1975, P.12)

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:(Descriptive Beliefs)

:(Inferential Beliefs)

:(Informational Beliefs)

(Shoenfeld, 1985, p.45)

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.(Petty and Cacioppo,1981, P.184)

(Rokeach,1972,P.159)

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(Hersh, \_\_\_\_\_ .1986, p. 13)

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(Zollman, A., and Mason, E., 1992) \_\_\_\_\_

(Klosterman, P., \_\_\_\_\_ and Stage, F. K., 1992)

(Thompson, 1982,1984)  
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" " (Shirk, 1972)  
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Leder, G. (Thompson, A. G, 1992) \_\_\_\_\_  
(C., and Fonzi, J., 2002)

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(Schram and Wilcox, 1988;

.(Schram et al. 1989)

.(USA) (Collier, 1972)

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.(Jakubowski and Champell, 1989)

(Carter, G., & Norwood, K. (1997)

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Underhill, R. G.,

.(Hart, L. C, 2002; Ma, 1999)

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Descriptive Method)

(Correlational

.(324 2000 )

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(Pearson -product correlation coefficient)

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(Ibrahim, 1990)

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(2010-2009)

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(Open Education)

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:(The Mathematics Belief Scale)(MBS)

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0.93    0.91	14 -27-42-14-16-28 -20-36-38-18-6- 26-2-1-4-	=(1 )
0.88    0.87	9 -30 -3-24-32-5 39-35-37- 34	=(2 )
0.85    0.84	8 -25 -8-15-33-13 19-10 -23	=(3 )
0.82    0.81	6 22-12-17-21-40-41	=(4 )
0.71    0.70	5 9-7-31-29-11	=(5 )

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:(1 ) \_\_\_\_\_ -1

Mathematics as a creative, imaginative, growing, exploratory, and applicable subject.

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:(2 ) \_\_\_\_\_ -2

Mathematics as a fixed body of concepts and principles.

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:(3 ) \_\_\_\_\_ -3

Mathematics as a rigid and restricted subject which consists of fixed rules and steps one has to follow.

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Mathematics as an inflexible and unchanging subject.

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:(5 ) -5

Mathematics as a subject that cannot be entirely understood and proven.

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**(MBS) -3-12**  
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(Alpha Cronbach = )  
( $\alpha_2 = 0.91$ )  
( $\alpha_1 = 0.89$ )

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(Pearson Product Moment Correlation)

(Roberts, 1979) & (Kubiszyn and Borich,1984)

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**Pearson Product Moment Correlation**

$0.70 \leq  r $	
$0.50 \leq  r  < 0.70$	
$0.30 \leq  r  < 0.50$	
$0.20 \leq  r  < 0.30$	
$ r  < 0.20$	

(Roberts, 1979) & (Kubiszyn and Borich,1984) :

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( $\alpha=0.05$ )

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(101= )

=5	=4	=3	=2	=1	( )
-0.353	-0.192	-0.230	-0.021	0.538	
-0.333	-0.163	-0.209	-0.002	0.511	

(0.205)=

(99)= . (101= ) :

(0.05)=

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(0.205)

(0.05)

( $\alpha=0.05$ )

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( \_\_\_\_\_ ) (MBS)

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( $\alpha=0.05$ )

( \_\_\_\_\_ ) (MBS)

(MBS)

:(5) \_\_\_\_\_

(49= )

$\approx 5$	$\approx 4$	$\approx 3$	$\approx 2$	$\approx 1$	( )
-0.347	-0.013	-0.382	-0.039	0.517	
-0.316	-0.010	-0.351	-0.015	0.502	

(0.288)= (47)= . (49= ) :

(0.05)=

( ) \_\_\_\_\_ (5)

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(0.288) (0.05)

\_\_\_\_\_ :

( $\alpha=0.05$ ) \_\_\_\_\_ )

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 (α=0.05  
 ( \_\_\_\_\_ ) (MBS)

(MBS) ((UNRWA) ( \_\_\_\_\_ )  
 : (6) \_\_\_\_\_

(52= ) ((UNRWA)( \_\_\_\_\_ )

5	4	3	2	1	( )
-0.217	-0.057	-0.293	-0.011	0.633	
-0.289	-0.016	-0.281	-0.091	0.615	

(0.273)= (50)= . (52= ) :  
 (0.05)=  
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 ( (UNRWA)( \_\_\_\_\_ )

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(0.273) (0.05)

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( $\alpha=0.05$ )

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((UNRWA)( ) )

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(3) .(0.273) (0.05)

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(Shumway, 1980)

.(Petty and Cacioppo,1981, P.184)

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(Hersh, 1986, p. 13)

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(Zollman, A., and Mason, E., 1992) \_\_\_\_\_

Shirk, ) (Thompson, 1982,1984 ) (Klosterman, P., and Stage, F. K., 1992)

(Bush, 1982) (1972

(Leder, G. C., and Fonzi, J., 2002) (Thompson, A. G, 1992)

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