.

2003

2004 / 4 /7

<div dir="rtl">

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1-   .   (   )   ……………….

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3 -   .   (   )   ……………….

4-   .   (   )   ……………….

</div>

الإهداء

إلى والدتي التي علمتني أن أعطي ولا أنتظر عطاءً...

إلى روح والدي، الذي علمني العصامية والكفاح...

إلى زوجتي الغالية...

إلى اخوتي وأخواتي...

إلى كل من علمني حرفا...

إلى كل باحث يصبوا إلى رضا الباري عز وجل...

أهدي هذا الجهد المتواضع

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(2143)

(6)   (6)   (12)   (62)

(0.9348)

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.(5 :1994)

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.(4 : 1973

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.(8 :1999)

(1896)

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.(125 :1988   )

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"   "   :

.(234 : 1994   )

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.(272:1973   )

(Helmholts)

(Mursell)

3

.(Wing, 1971 : p . 3)

.(Bentley,1976 : p .13)

Davis,1978: p.)

.(Seashore, 1938: p.1) (106

(Schen)

(Mursell)

(Lundin)

.(Leon , 1959 : p. 342 - 343)

:

.(Wing , 1971: p .1)

(Bentley,1976: p.1 - 3)

.(Davis , 1978 : p.107)

"

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. (168:1977   )

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.(276 :1966   )

(2:1962)

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(   )

(165 : 1994   ) .

:   (Musical ability)

(Musical   appreciation)

.(Wing,1971 : p .3) .

(167 :1977)

.

(1980)

.(187: 1973   )

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.1   :

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.2   :

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.3   :

Sight reading

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(1980).

(1994)

(Haecher   et.al.,1922)

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(1922)

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(1914)   "   .

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"   (23)   "   "

(1994: 110).

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.(14-13   12-11   10-9)

(10-9)

(12-11)

.(14-13 12-11 10-9)

2:1   :

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1.   :

:   (Musical ability)

.

(Musical appreciation)

(1980 :   )

2.   :   (

1999-)‬‬‬.

3.   :   (1999-)‬‬‬.

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(1999-)‬‬‬.

.5   :   (1999 -).

.6   :   (-12

(16   (1999-).

3:1   :

.(1984   )

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.(1984   )

.(1994   )

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(16-12)

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.2   :

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5:1   :

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(16-12)   :

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7:1   :

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8:1

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2:3:2

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6:2

7:2

8:2

.(144-142 : 1977   )

.

(Aptitude)

.(155-156 :1994   )

(Ability)

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.(Lavsen, 1992: p.20)

:

.1 :   .

.2 :   .

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.3 :

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.(142-144 :1977   (

(Webster)

.(Findlay, 1987: P.80)

Terman "   "

23

.(181 : 1994   )

:   (Grande ,1994)

              .

    " Suzuki"   (Suzuki,1985)

                    :

                            " Suzuki"

              .

                  (Milliams,1997)

              (   )

                        .

24

(Lilyquist : 1990)

.

2:2   **:**

:

•   (Pitch)   (Loudness)

(Rhythm)   (Time)   (Timbre)   (Tonal

(Memory) (1994: 180).

(1919)

"Seashore"

(1939)

(1994: 166)   (1976 :245).

"   "

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.(223 :1977   )

(15)

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.(1980   )

(Gordon: 1987)

(Gardner: 1983)

(Karma: 1985)

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3:2   **:**

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1:3:2 :

"Arnold Bentley" (1963)

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(7) (12)

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( ) .

Chords ( )

( )

(245-246 :1994   ).

27

2:3:3   **:**

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(7)

: Chord analysis

Pitch change

Memory   .

: Rhythmic accent

Harmony

Intensity

–   –   (1994: 273-279) .

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28

.(224 :1977   )

4:2   **:**

Austin, :p. 34)

.(1990

.(Mclendon, 1982: p . 36-37) .

(Attribution theory)

.(Weiner, 1979: p. 79)

:

.(Frieze & Weiner, 1971: p. 39)

.

.(Weiner, 1986:p. 85)

Asmus,)

.(Covingto ,1983) (1986

5:2   **:**

Davies

Davies .

Pitch location "   "

.

Davies

.(388-385 : 1994   )

6:2   **:**

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(1984:)

7 (.

(1974: 30).

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1984: 7(.

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.(8 :1984   )

7:2   :

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:1978   )

.(149: 151

"   " "   "   Litcning "

(Hearing)

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(1978 : 33).

8:2   :

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.(Soloman & Heller , 1982)

(Prescribed)

.(Harper & Bruce, 1989)

(1994)

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.(Paniagua , 1994)

.(Harper & Bruce, 1989)

Alzheimer

.(Goldman, 1992)

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• **Improvisational Music Therapy** :

Nordoff   Robbins

.

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● **Singing and Discussion**:

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● **Guided Imagery and Music (GIM)**)

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● **Clinical Orff Schulwerk (COS)**)

.

● **Rythmic Entrainment Intervention (REI)**)

−   **(Plach , 1980)**.

36

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(1994) -1-

(9)

(117)   (18)

(78)   (53)

.(1977-1967)

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41

‎: ‏(1994) -2-

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‎(72)‏ ‎(111)

‎(74)‏ ‎(39)‏ ‎(15-12)

‎(45)‏ ‎(29)

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43

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                              (1994)

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(232)

(400)

                              (60)

        .(1973/1972)

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(1980)

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(400)

.   (1980 - 1979)

45

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(16 - 9)

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(2 X 5)

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(100)

.   (0.71)   (0.74)   (0.53)

(0.01)

46

(12-9)

(12-11)

(12-11)   (10-9)

(14-13)

.(16-15)

(Bentley , 1976)

(2000)   (Bentley)

.   (10-7)

.   (%5)   (14-7)

(% 58)   (8)   (35)

(14-7)   (% 70)   (13-11)   42

(% 67) 40

(7)

(12)   (36)

(12)   (43)   (5)

.   (55)

.(Bentley, 1976 , pp: 97 – 99)

(1994)   Bentley   (1966)

(12-8)   (566)   (590)

.

(Drek , 1957)

(1994)

.

(1994   )   (Petzold ,1963)

(660)   .

(kwalwasser ,1936)

(2500)   (2500)   (1994)

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(Self Esteem Mmusic Ability)(SEMA) (Schmitt's)

(252)   (Austin 1990)   :

.

(Svengais: 1978)   (Self Concepl in Music)(SCIM)

(Austin: 1988)

(44)

.

(Holsomback: 2002)

:

Texas Assessment Academic) (TAAS)

(Skills

(104)

(TAAS)

$(0.05 = \alpha)$

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(Drugger: 2002)

(90)

(Advanced Aeasures of Musical Audiation) (AMMA)

Harrison:(1990)

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:(1994 -1-   ) ▪

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• (-2- 1994):

                        .

• (1980):

.(15-16)

• (Bentley, 1966):

                    .

• (Drek, 1957):

                .

• (Petzold, 1936):

        .

• (Kwalwasser , 1936):

        .

• (Austin, 1990):

            .

51

- :(Austin , 1988)

  .

- :(Holsomback , 2002)

  .

- :(Drugger , 2002)

  .

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  .

1:4

2:4

3:4

4:4

5:4

6:4

7:4

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:   (2003 / 2002)

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(2003/2002)

(3)   (7)   (10)

(4159)   (55)   (30)

(2274)   (1885)

(38)   (31)   (69)

(188)   (162)

(11031) (5544) (5487) (1)

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1

475	595	1411	1404	3885	
475	666	1510	1531	4182	
496	524	1460	1425	3905	
439	489	1163	1127	3218	
1885	2274	5544	5487	15190	

3:4 :

(2003 / 2002)

(2143) (62) (31)

(31)

(2: 1)

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.(1998-

:   (2)

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:   **2**

587	16	210	6	219	6	91	2	67	2	
594	16	216	6	213	6	94	2	71	2	
513	16	188	6	191	6	74	2	60	2	
449	14	154	5	164	5	69	2	62	2	
2143	62	768	23	787	23	328	8	260	8	

.   (3)

                                                   3

44	63	66	200	145	668	835	122
25	31	55	142	109	677	889	215

(122)   (3)

       (200)   (145)   (688)   (853)

       (3)   (44)   (63)   (66)

57

(109)   (677)   (889)   (215)

(25)   (31)   (55)   (142)

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(4)

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4

381	1677	85	308	1285	550	

(14.1)

(2143)   (15190)

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:   **4:4**

(1994   )

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(1971)

(1994)

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: **1:4:4**

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: **2:4:4**

( )

. (5)

5

0.89		1
0.91		2
0.91		3
0.92		4
0.88		5
0.91		6
0.93		**7**

(0.9203 - 0.8811)   (5)

.   (0.9348)

5:4   **:**

:(-1999   )

1.

(2)

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(2003/2002)

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.4 (2143)

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(2003/3/25) .

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.7 (SPSS)

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4.   (   ):   (10   )
$(-5$ $10)$ ($5)$.

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(SPSS)

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5. (MANOVA)

(Sidak Test) (Hotelling's).

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• $(0.05 = \alpha)$

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• $(0.05 = \alpha)$

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- (α = 0.05)

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- (α = 0.05)

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- (α = 0.05)

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*0.000	264.359	18644.681	1	18644.681		
		70.528	2141	151000.13		
			2142	169644.81		
*0.000	799.2	46113.665	1	46113.665		
		57.698	2141	123531.14		
			2142	169644.81		
0.069	2.674	211.473	2	422.946		
		79.076	2140	169221.86		
			2142	169644.81		
*0.000	16.953	1322.994	2	2645.988		
		78.037	2140	166998.82		
			2142	169644.81		
*0.000	18.194	1364.313	7	9550.190		
		74.986	2135	160094.62		
			2142	169644.81		
*0.000	29.141	2113.574	7	14795.116		
		72.529	2135	154849.79		
			2142	169644.81		
*0.008	3.986	314.337	3	943.012		
		78.869	2139	168701.80		
			2142	169644.81		

$(0.05 = \alpha)$ *

1. (6)

$(\alpha = 0.05)$

(0.05)

(40.2628)

(34.3620).

(1994).

(1980) :

(Bently,1966) (kwalwasser, 1936)

(Austin,1990) (1936)

. (1994)

(1) (1994)

.

2. $(\alpha = 0.05)$

(0.05)

(44.9235)

.(34.5273)

.

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.3 $(\alpha = 0.05)$

(0.05)

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.

.4 $(\alpha = 0.05)$

(0.05)

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7.

( )	(35.0026)	(37.8658)	(38.4471)
(35.0026)		*2.8632	*3.4444
(37.8658)			0.5812
(38.4471)			

(7)

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5. $(\alpha = 0.05)$

(0.05)

(8) .

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69

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71

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$(0.05 = \alpha)$ .6

(0.05)

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.(1994   )

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(0.05 = α)   .7

(0.05)   (   )

(10)   .(   )

.(   )

10.

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(36.4089)	(37.6347)	(37.4230)	(38.2628)	( )
*1.85398	06281	0.8398		(38.2628)
1.0141	0.2117			(37.4230)
1.2258				(37.6347)
				(36.4089)

(10)

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.(1980   )

(Bentley,1976)   :

                              .(Austin,1988)   (1980)

                                        .

                                                                    2:1:1:5

                        :

$(0.05 = \alpha)$ .1

)

                                    .   (

$(0.05 = \alpha)$ .2

)

                            .   (

$(0.05 = \alpha)$ .3

)

                          .   (

$(0.05 = \alpha)$ .4

)

                          .   (

5. (α = 0.05)

)

(.

6. (α = 0.05)

)

(.

7. (α = 0.05)

)

(.

(MANOVA)   (Hotelling's)   (11)   .

11.

*0.000	2138.000	5	325.936	0.762

(11)

(α = 0.05)

(Sidak Test)   (12)   .

12. (Sidak)

.

6	5	4	3	2	1		
-*.266	-*.290	-*.796	-*1.65	-*.943		5.574	.1
*.677	*.652	.147	-*.713			6.517	.2
*1.390	*1.365	*.859				7.229	.3
*.531	*.506					6.370	.4
.024						5.864	.5
						5.839	.6

* $(\alpha = 0.05)$

(12)

$(\alpha = 0.05)$:

■ .

■ .

■

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■ .

■ .

■

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■

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■

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(13)

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13.

*0.000	19.619	59.560	1	59.560	
*0.000	41.861	159.492	1	159.492	
*0.000	189.796	689.176	1	689.176	
*0.000	233.443	696.662	1	696.662	
*0.000	21.721	68.897	1	68.897	
*0.000	277.800	1866.492	1	1866.492	

* $(\alpha = 0.05)$

(13)   :

.1 $(\alpha = 0.05)$

(0.05)

79

(5.882)   (5.543).

.

(Bently,1966)

(kwalwasse,1936)

.

(1980)

(1994) (1)

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2.   (0.05 = α)

(0.05)

(7.107)   (6.553).

.

(1994) (1)

(1980).

.

3.   (0.05 = α)

(0.05)

(8.301)

.(7.148)

.

.(kwalwasse ,1936)

.

(1994) (1)

(1980)

.(Petzold,1963)

.

4.   (0.05 = α)

(0.05)

(7.452)   .(6.293)

.

(1994) (1)

.(1980)

.

5. $(\alpha = 0.05)$

                         $(0.05\ )$

                (6.241)

            . $(5.876).$

    (kwalwasser,   1936)

                                                                        .

        (1)   (1994)

                                                                $(1980).$

                                                            .

6. $(\alpha = 0.05)$

                         $(0.05\ )$

                (7.643)

            . $(5.746).$

.(1994   )

.(kwalwasser,1936)

.

(1994) (1)

.(Petzold ,1963)   (1980)

.

(14)

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14.

*0.001	5.876	17.839	3	53.517	
*0.003	4.689	17.865	3	53.594	
0.052	2.578	9.361	3	28.082	
*0.015	3.485	10.400	3	31.199	
*0.000	6.644	21.075	3	63.225	
*0.000	7.400	49.716	3	149.149	

$(0.05 = \alpha)$ *

(14)   :

1. (α = 0.05)

(0.05)

(   )

(   ).   (15)

(   ).

15.

(   )

(5.632)	(5.914)	(5.501)	(5.802)	( )
0.1752	0.1018	*0.3295		(5.802)
0.1544	*0.4313			(5.501)
0.2770				(5.914)
				(5.632)

(15)

(   )   :

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.

(Bently,1976)

.   (Austin,1988)

$(0.05 = \alpha)$ .2

(0.05)

(   )

:   (16)   .(   )

(   )

.**16**

.(   )

(6.584)	(6.897)	(6.817)	(7.022)	
*0.4349	0.1049	0.2281		(7.022)
0.2067	0.1233			(6.817)
*0.3300				(6.897)
				(6.584)

(16)

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(Bently,1976)

(Austin,1988)

.

.3 (0.05 = α)

(0.05)

(   )

.   .

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.

(1980)

.(12-11)

.4 (0.05 = α)

(0.05)

(   )

(17) .( )

.( )

17.

.( )

(6.679)	(6.928)	(6.874)	(7.008)	( )
*0.3032	0.0582	0.1889		(7.008)
0.1143	0.1307			(6.874)
0.2450				(6.928)
				(6.679)

(17)

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(Bently,1976)

(Austin,1988) .

5. $(\alpha = 0.05)$

(0.05)

( )

(18) .( )

.( )

18.

( )

(5.864)	(5.961)	(6.062)	(6.346)	( )
*0.4827	*0.3831	0.2784		(6.346)
0.2043	0.1046			(6.062)
0.0997				(5.961)
				(5.864)

(18)

( )

: ( )

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.

(Bently,1976)

. (Austin,1988)

$(\alpha = 0.05)$ .6

(0.05)

(   )

(   ) . (19)

(   ) .

19 .

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(6.374)	(6.686)	(7.111)	(6.608)	( )
0.2213	0.0971	0.3820		(6.608)
*0.6033	0.2850			(7.111)
0.3183				(6.686)
				(6.374)

(19)

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(Bently,1976)

.   (Austin,1988)

(20)

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20.

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*0.000	40.452	122.806	1	122.806	
*0.000	167.192	637.001	1	637.001	
*0.000	247.531	898.820	1	898.820	
*0.000	208.992	623.695	1	623.695	
*0.000	181.869	576.858	1	576.858	
*0.000	527.992	3547.495	1	3547.495	

* $(0.05 = \alpha)$

(20)   :

.1 $(0.05 = \alpha)$

(0.05)

(6.005)

(5.420).   .

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.2 $(\alpha = 0.05)$

(0.05)

(7.496)

.(6.164)   .

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$(\alpha = 0.05)$ .3

0.05)

(8.516)   .(6.933)

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$(\alpha = 0.05)$ .4

(0.05)

(7.532)   .(6.213)

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.5   (0.05 = α)

(0.05)

(6.692)   .(5.424)

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.6   (0.05 = α)

(0.05)

(8.267)   .(5.123)

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(21)

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21.

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0.681	0.385	1.168	2	2.337	
0.627	0.466	1.777	2	3.554	
0.440	0.821	2.982	2	5.963	
0.308	1.180	3.520	2	7.040	
0.297	1.215	3.853	2	7.706	
0.778	0.251	1.688	2	3.375	

* $(\alpha = 0.05)$

(21) :

.1 $(\alpha = 0.05)$

(0.05)

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.2 $(\alpha = 0.05)$

(0.05)

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.3 $(\alpha = 0.05)$

(0.05)

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$(0.05 = \alpha)$ .4

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$(0.05 = \alpha)$ .5

(0.05)

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$(0.05 = \alpha)$ .6

(0.05)

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22.

0.554	5.404	20.590	2	41.179	
*0.005	5.404	20.590	2	41.179	
*0.016	4.119	14.956	2	29.913	
*0.016	4.161	12.417	2	24.835	
0.938	0.064	0.202	2	0.403	
*0.010	4.629	31.104	2	62.207	

* $(\alpha = 0.05)$

(22) :

.1 $(\alpha = 0.05)$

(0.05)

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$(\alpha = 0.05)$ 2.

(0.05)

(23)   .

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23.

(6.986)	(6.938)	(6.566)	( )
*0.7071	*0.5807		(6.566)
0.1264			(6.938)
			(6.986)

(23)

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$(\alpha = 0.05)$ 3.

(0.05)

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24.

(8.254)	(8.013)	(7.772)	( )
*0.7045	*0.6461		(7.772)
0.0583			(8.013)
			(8.254)

(24)

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4. (α = 0.05)

(0.05)

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(25)

25.

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(7.245)	(6.742)	(6.629)	( )
*0.8375	*0.3130		(6.629)
*0.5245			(6.742)
			(7.245)

(25)

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5. (α = 0.05)

(0.05)

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(0.05 = α)   6.

(0.05)

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(26)

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26.

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(6.827)	(6.859)	(6.398)	( )
*1.1675	*1.0773		(6.398)
0.0902			(6.859)
			(6.827)

(26)

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(27)

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27.   .

0.765	0.589	1.788	7	12.516	
0.612	0.771	2.938	7	20.564	
0.481	0.931	3.381	7	23.668	
0.198	1.407	4.198	7	29.389	
0.994	0.149	0.473	7	3.308	
*0.001	3.351	22.515	7	157.608	

* $(\alpha = 0.05)$

(27)   :

.1 $(\alpha = 0.05)$

(0.05)

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$(\alpha = 0.05)$ .2

(0.05)

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$(\alpha = 0.05)$ .3

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$(\alpha = 0.05)$ .4

(0.05)

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5.   (α = 0.05)

(0.05)

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6.   (α = 0.05)

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29.

0.878	0.440	1.335	7	9.342	
0.074	1.847	7.039	7	49.271	
*0.019	2.405	8.731	7	61.118	
0.434	0.993	2.964	7	20.746	
0.305	1.190	3.773	7	26.412	
0.121	1.637	10.997	7	76.980	

* $(\alpha = 0.05)$

(29):

1. $(\alpha = 0.05)$

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2. $(\alpha = 0.05)$

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$(0.05 = \alpha)$ .3

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(0.05 = α)   4.

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.8 $(\alpha = 0.05)$

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12. (α = 0.05)

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16. (α = 0.05)

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17. (α = 0.05)

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18. (α = 0.05)

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19. (α = 0.05)

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20. (α = 0.05)

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21. (α = 0.05)

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*0.000	68.733	4418.229	1	4418.229	
0.091	2.398	154.157	2	308.315	
*0.000	16.213	1042.209	7	7295.465	
0.396	0.927	59.586	2	119.172	*
*0.019	2.400	154.247	7	1079.726	*
0.151	1.386	89.074	14	1247.037	*
0.832	0.641	41.228	14	577.186	* *
				3163957.00	

* (α = 0.05)

(31) :

113

$(\alpha = 0.05)$ .1

$(\alpha = 0.05 > 0.396)$

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$(\alpha = 0.05)$ .2

$(\alpha = 0.05 < 0.019)$

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$(\alpha = 0.05)$ .3

$(\alpha = 0.05 > 0.151)$

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$(\alpha = 0.05)$ .4

$(\alpha = 0.05 > 0.832)$

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(32)

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*0.000	76.469	5135.026	1	5135.026	
0.467	0.761	51.103	2	102.206	
*0.000	11.246	755.209	7	5286.461	
0.075	2.595	174.277	2	348.553	*
0.119	1.644	110.381	7	772.665	*
0.802	0.674	45.236	14	633.301	*
0.505	0.949	63.718	14	892.050	* *
				3163957.00	

* $(\alpha = 0.05)$

(32)   :

.1 $(\alpha = 0.05)$

$(\alpha = 0.05 > 0.075)$

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$(\alpha = 0.05)$ 2.

$(\alpha = 0.05 > 0.119)$

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$(\alpha = 0.05)$ 3.

$(\alpha = 0.05 > 0.802)$

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$(\alpha = 0.05)$ 4.

$(\alpha = 0.05 > 0.505)$

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(33)

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*0.000	67.283	4667.462	1	4667.462	
0.539	0.618	42.856	2	85.711	
*0.000	14.341	994.869	2	1989.738	
0.440	0.821	56.961	2	113.922	*
0.292	1.232	85.480	2	170.959	*
0.551	0.760	52.756	4	211.023	*
0.568	0.735	50.995	4	203.980	*
					*
				3163957.00	

$*$ $(\alpha = 0.05)$

(33) :

.1 $(\alpha = 0.05)$

$(\alpha = 0.05 > 0.440)$

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.2 $(\alpha = 0.05)$

$(\alpha = 0.05 > 0.292)$

117

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$(\alpha = 0.05)$ 3.

$(\alpha = 0.05 > 0.551)$

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$(\alpha = 0.05)$ 4.

$(\alpha = 0.05 > 0.568)$

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(34)

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0.496	0.912	63.589	1	445.124	
0.208	1.384	96.517	7	675.616	
*0.005	5.394	376.281	7	752.562	

*0.024	1.474	102.823	2	4524.217	*
0.101	1.506	105.094	44	1471.316	*
0.167	1.355	94.539	14	1323.552	*
0.176	1.212	84.533	38	3163957.00	* *

* $(0.05 = \alpha)$

(34)   :

.1 $(0.05 = \alpha)$

$(0.024 < 0.05 = \alpha)$

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.2 $(0.05 = \alpha)$

$(0.101 > 0.05 = \alpha)$

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119

$(\alpha = 0.05)$ .3

$(\alpha = 0.05 > 0.167)$

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$(\alpha = 0.05)$ .4

$(\alpha = 0.05 > 0.176)$

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(Bentley , 1976)   :

.(Austin , 1988)   (1980)

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الباحث :- عمار القضماني

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*7.1665	4.2826	2.0263	1.2958	1.2218	1.2348	1.0747		(40.0682)
*8.2412	*5.3572	*3.1009	2.3704	0.1471	2.3095			(41.1429)
*5.9317	3.0477	0.7914	0.0609	2.4567				(38.8333)
*8.3884	*5.5044	*3.2481	2.5176					(41.2900)
*5.8708	*2.9868	0.7305						(38.7724)
*5.1403	*2.2563							(38.0419)
2.8840								(35.7856)
								(32.9016)

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								( )
5.6456	3.2442	0.5636	1.8947	3.1180	2.0800	2.6026		(38.7200)
*8.2482	*5.8468	2.0390	0.7079	0.5154	0.5226			(41.3226)
*7.7256	*5.3242	1.5164	0.1853	1.0380				(40.8000)
*8.7636	*6.3622	2.5544	1.2233					(41.8380)
*7.5403	*5.1389	1.3311						(40.6147)
*6.2092	*3.8078							(39.2836)
2.4014								(35.4758)
								(33.0744)

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					دبلوم عالي			( )
*3.2407	*2.2175	1.1945	1.0188	0.0064	1.0303	.1097		(7.538)
*3.1310	*2.1079	1.0848	.9091	.1160	0.9206			(6.814)
*2.2104	1.1872	.1642	.0115	1.0367				(6.833)
*3.2470	*2.2239	*1.2008	1.0252					(7.032)
*2.2219	*1.1987	.1757						(6.425)
*2.0462	*1.0231							(6.691)
*1.0232								(6.251)
								(5.974)

					دبلوم عالي			( )
102967	0.9045	0.1262	0.1974	0.4842	0.2255	0.4413		(8.281)
*1.7380	*1.3458	0.5675	0.2439	0.0429	0.2158			(7.923)
*1.5222	*1.1299	0.3517	0.0280	0.2588				(7.804)
*1.7810	*1.3887	0.6104	0.2868					(7.695)
*1.4942	*1.1019	0.3236						(7.783)
*1.1705	*0.7783							(7.705)
0.3923								(7.376)
								(7.229)

An-Najah National University

Faculty of Graduate Studies

Musical Ability of Palestinian Public School Students in Nablus Governorate

Prepared

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Abstract

This study sought to discover the musical ability of seventh, eighth, ninth and tenth graders in public schools in Nablus Governorate. To this end, the study raised the following questions:

1. Does the musical ability of students differ due to sex, place of living, birth order in the family, number of family members, educational level and parents' education?

2. Does the students' ability to distinguish sounds and their volume, beat remembering, musical timing, quality of sound and rhythm remembering differ due to the independent variables of sex, class, place of living, birth order in the family, size of family and parents' education?

To answer the questions and test the hypotheses of the study, the researcher administered a test to a randomly chosen sample of 2,143 students of both sexes in the seventh, eighth, ninth, tenth grades in Nablus Governorate public school. They were distributed among 62 sections in 12 different schools: 6 for males and six for females. To test the reliability of the instrument, the researcher used internal consistency-Cronbach's Alpha coefficient reliability. It was 0.9348.

For data analysis, the researcher used One-Way Analysis of Variance, Three-Way Analysis of Variance and Multi-Way Analysis of Variance of dependent variables according to Holting's method of hypothesis testing.

Study findings:

1. It was found that there were statistically significant differences at $\alpha = 0.05$ among the averages of students' grades in the general musical ability test which were due to sex. The differences were in favor of females.

2. There were statistically significant differences at $\alpha = 0.05$ among averages of students' grades in the general musical ability test which might be attributed to place of living. The differences were found to be in favor of the city.

3. There were also statistically significant differences at $\alpha = 0.05$ among averages of students' grades in the general musical ability test which might be due to family size. The differences were in favor of small-size families, save the measurement to distinguish sounds and quality of sounds.

4. No statistically significant differences were found at $\alpha = 0.05$ among averages of students' grades in the general musical ability test which might be due to birth order in family.

5. There were statistically significant differences at $\alpha = 0.05$ among averages of students' grades in the general musical ability test which might be attributed to parents' education. The differences were in favor of those who had a higher level of education.

6. There were no statistically significant differences at $\alpha = 0.05$ among the averages of students' grades in the general musical ability test which might be due to interaction between the two sexes, birth order in the family, and father's education.

7. There were statistically significant differences at $\alpha = 0.05$ which might be due to mother's education.

8. There were statistically significant differences at $\alpha = 0.05$ which might be due to family size.

9. There were statistically significant differences at $\alpha = 0.05$ which might be attributed to interaction between mother's and father's education as well as family size.

10. There were statistically significant differences at $\alpha = 0.05$ among the averages of students' grades in the test scale of distinguishing sound, its volume, beat remembering, timing, quality of sounds and rhythm remembering which might be due to sex variable. The differences were found to be in favor of females.

11. There were statistically significant differences at $\alpha = 0.05$ which might be due to place of living. The differences were in favor of those from the city.

12. There were statistically significant differences at $\alpha = 0.05$ which might be attributed to class. The differences were in favor of older age groups save the scale of beat remembering.

13. There were statistically significant differences at $\alpha = 0.05$ which might be due to order of birth in the family.

14. There were statistically significant differences at $\alpha = 0.05$ which might be due to father's education, save scale of rhythm remembering.

15. There were statistically significant differences at $\alpha = 0.05$ which might be attributed to mother's education, save the beat remembering scale.

In light of the findings of the study, the researcher recommends that the different dimensions of the musical ability be taken into consideration by curriculum designers, schools, and parents. The researcher also recommends linking these dimensions with the variables of the study which revealed that they had an impact on the musical ability. The researcher also recommends further research in music education at schools given the importance of developing the individual's personality.