

Appendix F

Data showing standard error of difference between the means
and individual scores for each test

Formula for 95% confidence intervals

Tables 8.2-8.7

ANOVA summary tables

PPVT-R

| School | Music | Story | Child | Pretest | Posttest | Postposttest |
|--------|-------|-------|----------|---------|----------|--------------|
| A | YES | NO | David | 64 | 75 | 82 |
| A | YES | NO | Mark | 70 | 62 | 64 |
| A | YES | NO | Russell | 68 | 80 | 87 |
| A | YES | NO | Hebah | 44 | 50 | 54 |
| A | YES | NO | Stella | 70 | 78 | 89 |
| A | YES | NO | Cassie | 64 | 73 | 80 |
| A | YES | NO | Brian | 69 | 78 | 79 |
| A | YES | NO | Daniel | 50 | 55 | 58 |
| | | | | | | |
| B | NO | YES | Phillip | 85 | 89 | 87 |
| B | NO | YES | Erin | 80 | 83 | 85 |
| B | NO | YES | Lien | 46 | 60 | 53 |
| B | NO | YES | Paul | 60 | 73 | 80 |
| B | NO | YES | Justin | 84 | 87 | 88 |
| B | NO | YES | Jade | 69 | 87 | 80 |
| | | | | | | |
| C | YES | YES | Chelsea | 78 | 94 | 96 |
| C | YES | YES | Jenny | 43 | 65 | 68 |
| C | YES | YES | Rosa | 50 | 58 | 55 |
| C | YES | YES | Hannah | 85 | 93 | 93 |
| C | YES | YES | Chris | 40 | 55 | 65 |
| C | YES | YES | Bradley | 69 | 73 | 80 |
| C | YES | YES | Shane | 51 | 56 | 75 |
| C | YES | YES | Gary | 70 | 76 | 77 |
| C | YES | YES | Steven | 59 | 65 | 76 |
| | | | | | | |
| D | NO | NO | Dean | 66 | 70 | 78 |
| D | NO | NO | Daniel | 70 | 95 | 83 |
| D | NO | NO | Tommy | 51 | 59 | 52 |
| D | NO | NO | Bianca | 47 | 58 | 70 |
| D | NO | NO | Corey | 68 | 83 | 88 |
| D | NO | NO | Mathew | 64 | 81 | 75 |
| | | | | | | |
| E | NO | NO | Jennifer | 43 | 52 | 58 |
| E | NO | NO | Simon | 39 | 53 | 53 |
| E | NO | NO | Hanna | 38 | 47 | 56 |
| E | NO | NO | Nadia | 28 | 45 | 50 |
| E | NO | NO | Ryan | 31 | 47 | 38 |
| E | NO | NO | Adam | 39 | 42 | 49 |
| E | NO | NO | Justine | 42 | 50 | 48 |
| E | NO | NO | Dan | 22 | 32 | 41 |
| | | | | | | |
| A | MPS | | | 62.38 | 68.88 | 74.13 |
| | SEM | | | 3.75 | 4.38 | 5.10 |
| | | | | | | |
| B | MPS | | | 70.67 | 79.83 | 78.83 |
| | SEM | | | 6.91 | 5.05 | 5.86 |
| | | | | | | |
| C | MPS | | | 60.56 | 70.56 | 76.11 |
| | SEM | | | 5.59 | 5.25 | 4.56 |
| | | | | | | |
| D | MPS | | | 61.00 | 74.33 | 74.33 |
| | SEM | | | 4.29 | 6.53 | 5.63 |
| | | | | | | |
| E | MPS | | | 35.25 | 46.00 | 49.13 |
| | SEM | | | 2.81 | 2.54 | 2.61 |

Range of Scores - Maximum=unlimited; Minimum=0

$F(40,85) = 0.3758$ [NS]

| School | Music | Story | Child | Pretest | Posttest | Postposttest |
|--------|-------|-------|----------|---------|----------|--------------|
| A | YES | NO | David | 40 | 52 | 75 |
| A | YES | NO | Mark | 20 | 34 | 42 |
| A | YES | NO | Russell | 40 | 70 | 49 |
| A | YES | NO | Hebah | 1 | 7 | 15 |
| A | YES | NO | Stella | 34 | 52 | 94 |
| A | YES | NO | Cassie | 28 | 64 | 76 |
| A | YES | NO | Brian | 37 | 58 | 100 |
| A | YES | NO | Daniel | 8 | 10 | 28 |
| | | | | | | |
| B | NO | YES | Phillip | 13 | 60 | 76 |
| B | NO | YES | Erin | 54 | 58 | 76 |
| B | NO | YES | Lien | 16 | 58 | 70 |
| B | NO | YES | Paul | 27 | 67 | 40 |
| B | NO | YES | Justin | 36 | 46 | 82 |
| B | NO | YES | Jade | 36 | 70 | 40 |
| | | | | | | |
| C | YES | YES | Chelsea | 39 | 82 | 76 |
| C | YES | YES | Jenny | 39 | 57 | 76 |
| C | YES | YES | Rosa | 23 | 39 | 76 |
| C | YES | YES | Hannah | 29 | 82 | 100 |
| C | YES | YES | Chris | 10 | 26 | 76 |
| C | YES | YES | Bradley | 14 | 46 | 76 |
| C | YES | YES | Shane | 20 | 34 | 40 |
| C | YES | YES | Gary | 38 | 51 | 58 |
| C | YES | YES | Steven | 33 | 55 | 55 |
| | | | | | | |
| D | NO | NO | Dean | 25 | 37 | 52 |
| D | NO | NO | Daniel | 28 | 63 | 64 |
| D | NO | NO | Tommy | 6 | 0 | 14 |
| D | NO | NO | Bianca | 33 | 54 | 52 |
| D | NO | NO | Corey | 13 | 82 | 100 |
| D | NO | NO | Mathew | 5 | 36 | 64 |
| | | | | | | |
| E | NO | NO | Jennifer | 9 | 3 | 2 |
| E | NO | NO | Simon | 0 | 5 | 2 |
| E | NO | NO | Hanna | 1 | 3 | 8 |
| E | NO | NO | Nadia | 8 | 8 | 7 |
| E | NO | NO | Ryan | 0 | 4 | 6 |
| E | NO | NO | Adam | 1 | 1 | 3 |
| E | NO | NO | Justine | 16 | 3 | 7 |
| E | NO | NO | Dan | 0 | 2 | 5 |
| | | | | | | |
| A | MPS | | | 26.00 | 43.38 | 59.88 |
| | SEM | | | 5.65 | 9.06 | 11.72 |
| | | | | | | |
| B | MPS | | | 30.33 | 59.83 | 64.00 |
| | SEM | | | 6.76 | 3.76 | 8.49 |
| | | | | | | |
| C | MPS | | | 27.22 | 52.44 | 70.33 |
| | SEM | | | 3.90 | 6.89 | 6.06 |
| | | | | | | |
| D | MPS | | | 18.33 | 45.33 | 57.67 |
| | SEM | | | 5.33 | 12.56 | 12.40 |
| | | | | | | |
| E | MPS | | | 4.38 | 3.63 | 5.00 |
| | SEM | | | 2.26 | 0.81 | 0.90 |

Range of Scores - Maximum=100; Minimum=0

$F(1,54) = 0.9693$ [NS]

Rhyme Test

| School | Music | Story | Child | Pretest | Posttest | Postposttest |
|--------|-------|-------|----------|---------|----------|--------------|
| A | YES | NO | David | 5 | 1 | 9 |
| A | YES | NO | Mark | 9 | 12 | 14 |
| A | YES | NO | Russell | 12 | 15 | 15 |
| A | YES | NO | Hebah | 2 | 8 | 9 |
| A | YES | NO | Stella | 4 | 5 | 12 |
| A | YES | NO | Cassie | 11 | 8 | 12 |
| A | YES | NO | Brian | 2 | 7 | 14 |
| A | YES | NO | Daniel | 4 | 7 | 12 |
| | | | | | | |
| B | NO | YES | Phillip | 15 | 14 | 15 |
| B | NO | YES | Erin | 1 | 4 | 7 |
| B | NO | YES | Lien | 12 | 8 | 13 |
| B | NO | YES | Paul | 12 | 12 | 11 |
| B | NO | YES | Justin | 7 | 6 | 8 |
| B | NO | YES | Jade | 13 | 11 | 10 |
| | | | | | | |
| C | YES | YES | Chelsea | 12 | 15 | 14 |
| C | YES | YES | Jenny | 2 | 9 | 7 |
| C | YES | YES | Rosa | 4 | 5 | 7 |
| C | YES | YES | Hannah | 8 | 9 | 9 |
| C | YES | YES | Chris | 6 | 9 | 10 |
| C | YES | YES | Bradley | 3 | 5 | 6 |
| C | YES | YES | Shane | 10 | 12 | 14 |
| C | YES | YES | Gary | 11 | 10 | 14 |
| C | YES | YES | Steven | 4 | 8 | 9 |
| | | | | | | |
| D | NO | NO | Dean | 6 | 9 | 10 |
| D | NO | NO | Daniel | 11 | 12 | 10 |
| D | NO | NO | Tommy | 6 | 5 | 10 |
| D | NO | NO | Bianca | 6 | 8 | 10 |
| D | NO | NO | Corey | 9 | 11 | 12 |
| D | NO | NO | Mathew | 9 | 12 | 14 |
| | | | | | | |
| E | NO | NO | Jennifer | 4 | 10 | 8 |
| E | NO | NO | Simon | 4 | 6 | 6 |
| E | NO | NO | Hanna | 11 | 7 | 6 |
| E | NO | NO | Nadia | 5 | 1 | 5 |
| E | NO | NO | Ryan | 2 | 7 | 9 |
| E | NO | NO | Adam | 6 | 4 | 2 |
| E | NO | NO | Justine | 6 | 7 | 8 |
| E | NO | NO | Dan | 5 | 0 | 4 |
| | | | | | | |
| A | MPS | | | 6.13 | 7.88 | 12.13 |
| | SEM | | | 1.50 | 1.60 | 0.84 |
| | | | | | | |
| B | MPS | | | 10.00 | 9.17 | 10.67 |
| | SEM | | | 2.30 | 1.71 | 1.35 |
| | | | | | | |
| C | MPS | | | 6.67 | 9.11 | 10.00 |
| | SEM | | | 1.31 | 1.11 | 1.15 |
| | | | | | | |
| D | MPS | | | 7.83 | 9.50 | 11.00 |
| | SEM | | | 0.96 | 1.22 | 0.75 |
| | | | | | | |
| E | MPS | | | 5.38 | 5.25 | 6.00 |
| | SEM | | | 0.99 | 1.27 | 0.88 |

Range of Scores - Maximum=15; Minimum=0

$F(1,15) = 0.8669$ [NS]

Token Test

| School | Music | Story | Child | Pretest | Posttest | Postposttest |
|--------|-------|-------|----------|---------|----------|--------------|
| A | YES | NO | David | 27 | 42 | 51 |
| A | YES | NO | Mark | 24 | 39 | 50 |
| A | YES | NO | Russell | 46 | 49 | 51 |
| A | YES | NO | Hebah | 21 | 37 | 31 |
| A | YES | NO | Stella | 34 | 56 | 53 |
| A | YES | NO | Cassie | 45 | 54 | 52 |
| A | YES | NO | Brian | 39 | 49 | 56 |
| A | YES | NO | Daniel | 24 | 49 | 53 |
| | | | | | | |
| B | NO | YES | Phillip | 39 | 47 | 50 |
| B | NO | YES | Erin | 43 | 54 | 61 |
| B | NO | YES | Lien | 58 | 59 | 61 |
| B | NO | YES | Paul | 46 | 57 | 50 |
| B | NO | YES | Justin | 39 | 53 | 61 |
| B | NO | YES | Jade | 31 | 59 | 37 |
| | | | | | | |
| C | YES | YES | Chelsea | 55 | 58 | 61 |
| C | YES | YES | Jenny | 45 | 53 | 60 |
| C | YES | YES | Rosa | 39 | 47 | 54 |
| C | YES | YES | Hannah | 40 | 51 | 57 |
| C | YES | YES | Chris | 28 | 35 | 39 |
| C | YES | YES | Bradley | 42 | 61 | 58 |
| C | YES | YES | Shane | 44 | 46 | 46 |
| C | YES | YES | Gary | 39 | 47 | 49 |
| C | YES | YES | Steven | 34 | 45 | 55 |
| | | | | | | |
| D | NO | NO | Dean | 36 | 43 | 40 |
| D | NO | NO | Daniel | 48 | 52 | 55 |
| D | NO | NO | Tommy | 15 | 16 | 23 |
| D | NO | NO | Bianca | 26 | 33 | 39 |
| D | NO | NO | Corey | 43 | 53 | 47 |
| D | NO | NO | Mathew | 39 | 49 | 40 |
| | | | | | | |
| E | NO | NO | Jennifer | 7 | 2 | 18 |
| E | NO | NO | Simon | 2 | 0 | 7 |
| E | NO | NO | Hanna | 26 | 48 | 46 |
| E | NO | NO | Nadia | 26 | - | 34 |
| E | NO | NO | Ryan | 0 | 6 | 7 |
| E | NO | NO | Adam | 32 | - | 35 |
| E | NO | NO | Justine | 22 | 21 | 25 |
| E | NO | NO | Dan | 0 | 18 | 9 |
| | | | | | | |
| A | MPS | | | 32.50 | 46.88 | 49.63 |
| | SEM | | | 3.75 | 2.60 | 2.93 |
| | | | | | | |
| B | MPS | | | 42.67 | 54.83 | 53.33 |
| | SEM | | | 4.05 | 2.05 | 4.31 |
| | | | | | | |
| C | MPS | | | 40.67 | 49.22 | 53.22 |
| | SEM | | | 2.65 | 2.72 | 2.56 |
| | | | | | | |
| D | MPS | | | 34.50 | 41.00 | 40.67 |
| | SEM | | | 5.40 | 6.39 | 4.74 |
| | | | | | | |
| E | MPS | | | 14.38 | 15.83 | 22.63 |
| | SEM | | | 5.07 | 6.77 | 5.59 |

Range of Scores - Maximum=61; Minimum=0

F(15,58) = 1.0728 [NS]

BLCST

| School | Music | Story | Child | Pretest | Posttest | Postposttest |
|--------|-------|-------|----------|---------|----------|--------------|
| A | YES | NO | David | 16 | 16 | 16 |
| A | YES | NO | Mark | 14 | 15 | 16 |
| A | YES | NO | Russell | 16 | 16 | 16 |
| A | YES | NO | Hebah | 13 | 16 | 16 |
| A | YES | NO | Stella | 14 | 16 | 16 |
| A | YES | NO | Cassie | 16 | 15 | 16 |
| A | YES | NO | Brian | 16 | 16 | 16 |
| A | YES | NO | Daniel | 16 | 14 | 16 |
| | | | | | | |
| B | NO | YES | Phillip | 16 | 16 | 16 |
| B | NO | YES | Erin | 16 | 16 | 16 |
| B | NO | YES | Lien | 14 | 14 | 16 |
| B | NO | YES | Paul | 14 | 15 | 16 |
| B | NO | YES | Justin | 16 | 16 | 16 |
| B | NO | YES | Jade | 15 | 16 | 16 |
| | | | | | | |
| C | YES | YES | Chelsea | 16 | 16 | 16 |
| C | YES | YES | Jenny | 16 | 16 | 16 |
| C | YES | YES | Rosa | 15 | 15 | 16 |
| C | YES | YES | Hannah | 16 | 16 | 16 |
| C | YES | YES | Chris | 12 | 15 | 16 |
| C | YES | YES | Bradley | 16 | 16 | 16 |
| C | YES | YES | Shane | 16 | 16 | 16 |
| C | YES | YES | Gary | 15 | 16 | 16 |
| C | YES | YES | Steven | 16 | 16 | 16 |
| | | | | | | |
| D | NO | NO | Dean | 15 | 16 | 16 |
| D | NO | NO | Daniel | 15 | 16 | 16 |
| D | NO | NO | Tommy | 9 | 15 | 16 |
| D | NO | NO | Bianca | 12 | 16 | 16 |
| D | NO | NO | Corey | 16 | 16 | 16 |
| D | NO | NO | Mathew | 15 | 14 | 16 |
| | | | | | | |
| E | NO | NO | Jennifer | 8 | 13 | 13 |
| E | NO | NO | Simon | 8 | 9 | 10 |
| E | NO | NO | Hanna | 8 | 14 | 15 |
| E | NO | NO | Nadia | 9 | 14 | 14 |
| E | NO | NO | Ryan | 10 | 12 | 13 |
| E | NO | NO | Adam | 11 | 15 | 13 |
| E | NO | NO | Justine | 10 | 15 | 15 |
| E | NO | NO | Dan | 12 | 14 | 15 |
| | | | | | | |
| A | MPS | | | 15.13 | 15.50 | 16.00 |
| | SEM | | | 0.47 | 0.29 | 0.00 |
| | | | | | | |
| B | MPS | | | 15.17 | 15.50 | 16.00 |
| | SEM | | | 0.44 | 0.37 | 0.00 |
| | | | | | | |
| C | MPS | | | 15.33 | 15.78 | 16.00 |
| | SEM | | | 0.47 | 0.16 | 0.00 |
| | | | | | | |
| D | MPS | | | 13.67 | 15.50 | 16.00 |
| | SEM | | | 1.19 | 0.37 | 0.00 |
| | | | | | | |
| E | MPS | | | 9.50 | 13.25 | 13.50 |
| | SEM | | | 0.57 | 0.75 | 0.64 |

Range of Scores - Maximum=16; Minimum=0

F(9,16) = 3.8121 [S 0.05]

ARSCT

| School | Music | Story | Child | Pretest | Posttest | Postposttest |
|--------|-------|-------|----------|---------|----------|--------------|
| A | YES | NO | David | 4 | 8 | 8 |
| A | YES | NO | Mark | 3 | 6 | 8 |
| A | YES | NO | Russell | 8 | 6 | 8 |
| A | YES | NO | Hebah | 1 | 1 | 6 |
| A | YES | NO | Stella | 3 | 8 | 8 |
| A | YES | NO | Cassie | 6 | 8 | 8 |
| A | YES | NO | Brian | 6 | 7 | 8 |
| A | YES | NO | Daniel | 6 | 5 | 7 |
| | | | | | | |
| B | NO | YES | Phillip | 7 | 8 | 8 |
| B | NO | YES | Erin | 6 | 8 | 8 |
| B | NO | YES | Lien | 6 | 5 | 8 |
| B | NO | YES | Paul | 6 | 7 | 8 |
| B | NO | YES | Justin | 8 | 7 | 7 |
| B | NO | YES | Jade | 6 | 7 | 5 |
| | | | | | | |
| C | YES | YES | Chelsea | 6 | 8 | 8 |
| C | YES | YES | Jenny | 4 | 6 | 8 |
| C | YES | YES | Rosa | 7 | 8 | 8 |
| C | YES | YES | Hannah | 7 | 7 | 8 |
| C | YES | YES | Chris | 4 | 7 | 8 |
| C | YES | YES | Bradley | 6 | 8 | 8 |
| C | YES | YES | Shane | 7 | 7 | 8 |
| C | YES | YES | Gary | 8 | 8 | 8 |
| C | YES | YES | Steven | 7 | 6 | 7 |
| | | | | | | |
| D | NO | NO | Dean | 6 | 7 | 7 |
| D | NO | NO | Daniel | 6 | 7 | 8 |
| D | NO | NO | Tommy | 5 | 6 | 7 |
| D | NO | NO | Bianca | 5 | 7 | 8 |
| D | NO | NO | Corey | 8 | 7 | 8 |
| D | NO | NO | Mathew | 4 | 7 | 6 |
| | | | | | | |
| E | NO | NO | Jennifer | 2 | 2 | 4 |
| E | NO | NO | Simon | 0 | 4 | 2 |
| E | NO | NO | Hanna | 6 | 6 | 5 |
| E | NO | NO | Nadia | 1 | 3 | 7 |
| E | NO | NO | Ryan | 0 | 3 | 1 |
| E | NO | NO | Adam | 2 | - | 6 |
| E | NO | NO | Justine | 1 | 4 | 5 |
| E | NO | NO | Dan | 1 | 6 | 2 |
| | | | | | | |
| A | MPS | | | 4.63 | 6.13 | 7.63 |
| | SEM | | | 0.86 | 0.89 | 0.28 |
| | | | | | | |
| B | MPS | | | 6.50 | 7.00 | 7.33 |
| | SEM | | | 0.37 | 0.49 | 0.54 |
| | | | | | | |
| C | MPS | | | 6.22 | 7.22 | 7.89 |
| | SEM | | | 0.49 | 0.29 | 0.12 |
| | | | | | | |
| D | MPS | | | 5.67 | 6.83 | 7.33 |
| | SEM | | | 0.61 | 0.18 | 0.37 |
| | | | | | | |
| E | MPS | | | 1.63 | 4.00 | 4.00 |
| | SEM | | | 0.73 | 0.58 | 0.81 |

Range of Scores - Maximum=8; Minimum=0

$F(1,8) = 2.0067$ [NS]

MATHS TEST

| School | Music | Story | Child | Pretest | Posttest | Postposttest |
|--------|-------|-------|----------|---------|----------|--------------|
| A | YES | NO | David | 18 | 19 | 50 |
| A | YES | NO | Mark | 12 | 14 | 11 |
| A | YES | NO | Russell | 14 | 14 | 18 |
| A | YES | NO | Hebah | 6 | 11 | 10 |
| A | YES | NO | Stella | 14 | 15 | 16 |
| A | YES | NO | Cassie | 15 | 15 | 13 |
| A | YES | NO | Brian | 15 | 25 | 12 |
| A | YES | NO | Daniel | 2 | 11 | 9 |
| | | | | | | |
| B | NO | YES | Phillip | 15 | 15 | 14 |
| B | NO | YES | Erin | 18 | 28 | 69 |
| B | NO | YES | Lien | 14 | 15 | 12 |
| B | NO | YES | Paul | 9 | 12 | 15 |
| B | NO | YES | Justin | 54 | 37 | 66 |
| B | NO | YES | Jade | 15 | 17 | 12 |
| | | | | | | |
| C | YES | YES | Chelsea | 39 | 37 | 37 |
| C | YES | YES | Jenny | 11 | 14 | 12 |
| C | YES | YES | Rosa | 14 | 20 | 16 |
| C | YES | YES | Hannah | 15 | 14 | 15 |
| C | YES | YES | Chris | 12 | 14 | 12 |
| C | YES | YES | Bradley | 15 | 16 | 15 |
| C | YES | YES | Shane | 12 | 9 | 13 |
| C | YES | YES | Gary | 14 | 15 | 15 |
| C | YES | YES | Steven | 14 | 14 | 16 |
| | | | | | | |
| D | NO | NO | Dean | 13 | 11 | 11 |
| D | NO | NO | Daniel | 9 | 1 | 11 |
| D | NO | NO | Tommy | 6 | 9 | 9 |
| D | NO | NO | Bianca | 14 | 14 | 14 |
| D | NO | NO | Corey | 18 | 33 | 35 |
| D | NO | NO | Mathew | 10 | 12 | 8 |
| | | | | | | |
| E | NO | NO | Jennifer | 0 | 1 | 3 |
| E | NO | NO | Simon | 0 | 4 | 1 |
| E | NO | NO | Hanna | 1 | 8 | 8 |
| E | NO | NO | Nadia | 0 | 6 | 7 |
| E | NO | NO | Ryan | 0 | 1 | 1 |
| E | NO | NO | Adam | 7 | 10 | 12 |
| E | NO | NO | Justine | 0 | 4 | 6 |
| E | NO | NO | Dan | 0 | 3 | 3 |
| | | | | | | |
| A | MPS | | | 11.14 | 15.00 | 12.71 |
| | SEM | | | 2.09 | 1.93 | 1.33 |
| | | | | | | |
| B | MPS | | | 21.40 | 19.20 | 23.80 |
| | SEM | | | 9.20 | 5.05 | 11.81 |
| | | | | | | |
| C | MPS | | | 16.22 | 17.00 | 16.78 |
| | SEM | | | 3.06 | 2.83 | 2.74 |
| | | | | | | |
| D | MPS | | | 10.40 | 9.40 | 10.60 |
| | SEM | | | 1.60 | 2.51 | 1.15 |
| | | | | | | |
| E | MPS | | | 1.00 | 4.63 | 5.13 |
| | SEM | | | 0.93 | 1.21 | 1.45 |

Range of Scores - Maximum=113; Minimum=0

$F(2,54) = 0.5822$ [NS]

Formula for 95% Confidence Intervals

Lower = Mean - 2x standard error of mean (SEM)

Upper = Mean + 2x SEM

where $SEM = \sqrt{rms/n}$ where

rms = residual mean square from ANOVA table

n = replication (ie. number of observations used to calculate mean)

Table 8.2

Mean Gains (Post-Pretest) on Token Test for Music, Story, Music/Story, No Music/Story and Contrast Groups.

| | NO STORY GROUP | STORY GROUP |
|-------------------|-------------------|----------------|
| NO MUSIC GROUP | 6.500 (6) | 12.157 (6) |
| MUSIC GROUP | 14.375 (8) | 8.556 (9) |
| CONTRAST GROUP | 6.333 (6) | |

Note a. Number of observations is in the bracket.

b. NSW is the contrast group

Table 8.3

Mean Gains (Postpost-Pretest) on Token Test for Music, Story, Music/Story, No Music/Story, and Contrast Groups

| | NO STORY GROUP | STORY GROUP |
|-------------------|-------------------|----------------|
| NO MUSIC GROUP | 6.17 (6) | 10.67 (6) |
| MUSIC GROUP | 17.12 (8) | 12.56 (9) |
| CONTRAST GROUP | 8.25 (8) | |

Note a. Number of observations is in the bracket.
b. NSW is the contrast group

Table 8.4 and 8.5

Mean Gains (Postpost-Pretest) on Rhyme Test for Music, Story, Music/Story, No Music/Story, and Contrast Groups

| | NO STORY GROUP | STORY GROUP |
|-------------------|-------------------|----------------|
| NO MUSIC GROUP | 3.167 (6) | 0.667 (6) |
| MUSIC GROUP | 6.000 (8) | 3.333 (9) |
| CONTRAST GROUP | 0.625 (8) | |

Note a. Number of observations is in the bracket.
b. NSW is the contrast group

Table 8.6

Mean Gains (Postpost-Posttest) on Rhyme Test for Music, Story, Music/Story, No Music/Story, and Contrast Groups

| | NO STORY GROUP | STORY GROUP |
|-------------------|-------------------|----------------|
| NO MUSIC GROUP | 1.500 (6) | 1.500 (6) |
| MUSIC GROUP | 4.250 (8) | 0.889 (9) |
| CONTRAST GROUP | 0.750 (8) | |

Note a. Number of observations is in the bracket.
b. NSW is the contrast group

Table 8.7

Mean Gains (Postpost-Posttest) on PPVT-R for Music, Story, Music/Story, No Music/Story, and Contrast Groups

| | NO STORY GROUP | STORY GROUP |
|-------------------|-------------------|----------------|
| NO MUSIC GROUP | 0.000 (6) | -1.000 (6) |
| MUSIC GROUP | 5.250 (8) | 5.556 (9) |
| CONTRAST GROUP | 3.125 (8) | |

Note a. Number of observations is in the bracket.

b. NSW is the contrast group

ANOVA SUMMARY TABLES

Token test - post-pretest

| Source of variation | df | ss | ms | vr |
|---------------------|-------|---------|--------|------|
| ACT-NSW | 1 | 107.86 | 107.86 | 1.97 |
| Music | 1 | 27.05 | 27.05 | 0.49 |
| Story | 1 | 8.08 | 8.08 | 0.15 |
| Music-Story | 1 | 231.68 | 231.68 | 4.23 |
| Residual | 30(2) | 1643.76 | 54.79 | |
| Total | 34(2) | 1996.17 | | |

Token test - postpost-pretest

| Source of variation | df | ss | ms | vr |
|---------------------|----|---------|--------|------|
| ACT-NSW | 1 | 93.11 | 93.11 | 2.05 |
| Music | 1 | 278.24 | 278.24 | 6.11 |
| Story | 1 | 4.73 | 4.73 | 0.10 |
| Music-Story | 1 | 144.45 | 144.45 | 3.17 |
| Residual | 32 | 1456.76 | 45.52 | |
| Total | 36 | 1977.30 | | |

Rhyme - postpost-pretest

| Source of variation | df | ss | ms | vr |
|---------------------|----|---------|--------|------|
| ACT-NSW | 1 | 51.208 | 51.208 | 5.89 |
| Music | 1 | 50.207 | 50.207 | 5.78 |
| Story | 1 | 48.819 | 48.819 | 5.62 |
| Music-Story | 1 | 0.049 | 0.049 | 0.01 |
| Residual | 32 | 278.042 | 8.689 | |
| Total | 36 | 428.324 | | |

Rhyme - postpost-posttest

| Source of variation | df | ss | ms | vr |
|---------------------|----|---------|--------|------|
| ACT-NSW | 1 | 10.908 | 10.908 | 1.91 |
| Music | 1 | 6.627 | 6.627 | 1.16 |
| Story | 1 | 28.008 | 28.008 | 4.90 |
| Music-Story | 1 | 19.839 | 19.839 | 3.47 |
| Residual | 32 | 182.889 | 5.715 | |
| Total | 36 | 248.270 | | |

PPVT-R - postpost-posttest

| Source of variation | df | ss | ms | vr |
|---------------------|----|---------|--------|------|
| ACT-NSW | 1 | 0.16 | 0.16 | 0.00 |
| Music | 1 | 246.01 | 246.01 | 5.85 |
| Story | 1 | 0.03 | 0.03 | 0.00 |
| Music-Story | 1 | 3.20 | 3.20 | 0.08 |
| Residual | 32 | 1344.60 | 42.02 | |
| Total | 36 | 1594.00 | | |