2009 Grade 3 Reading – Final Solution
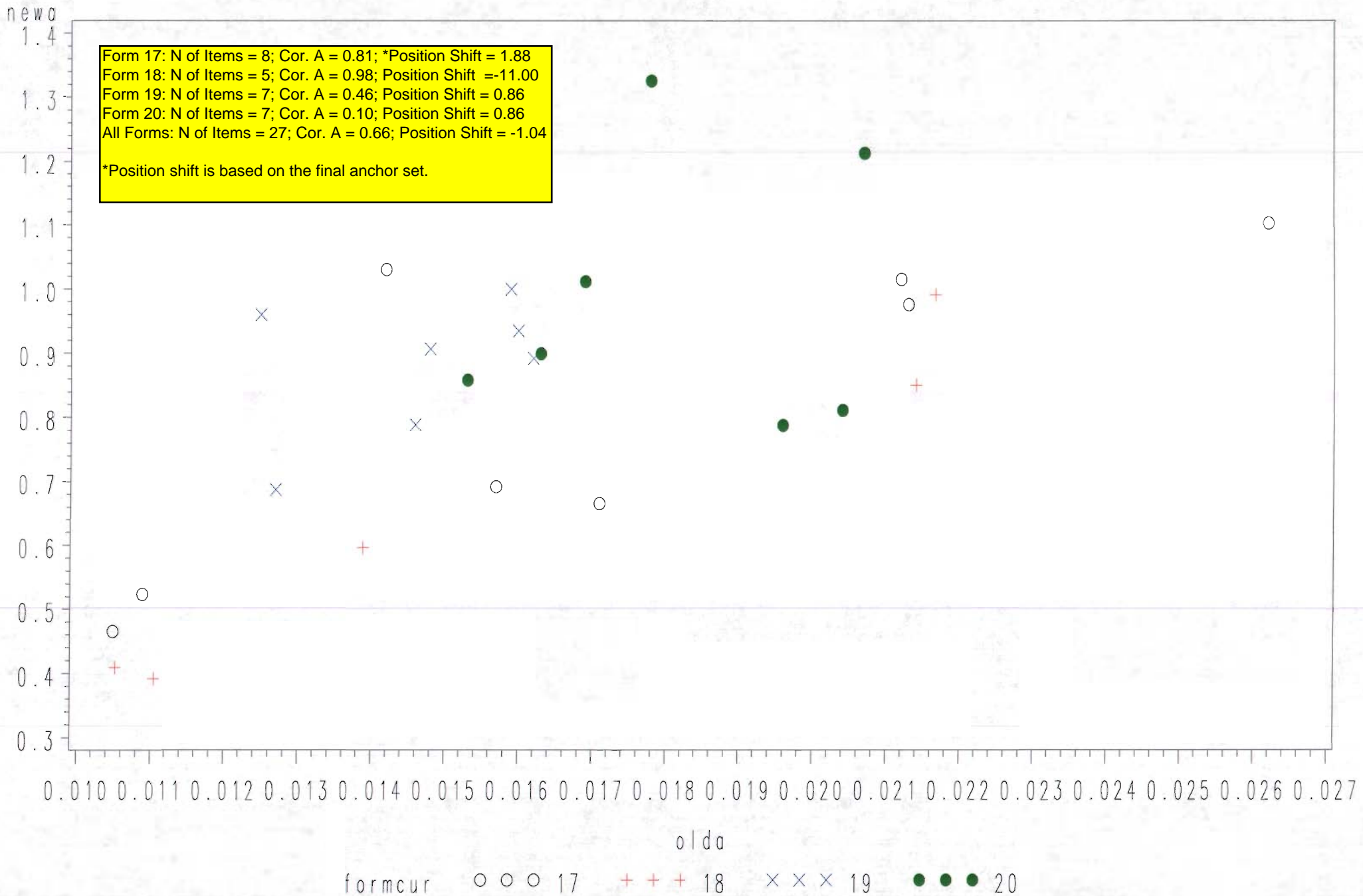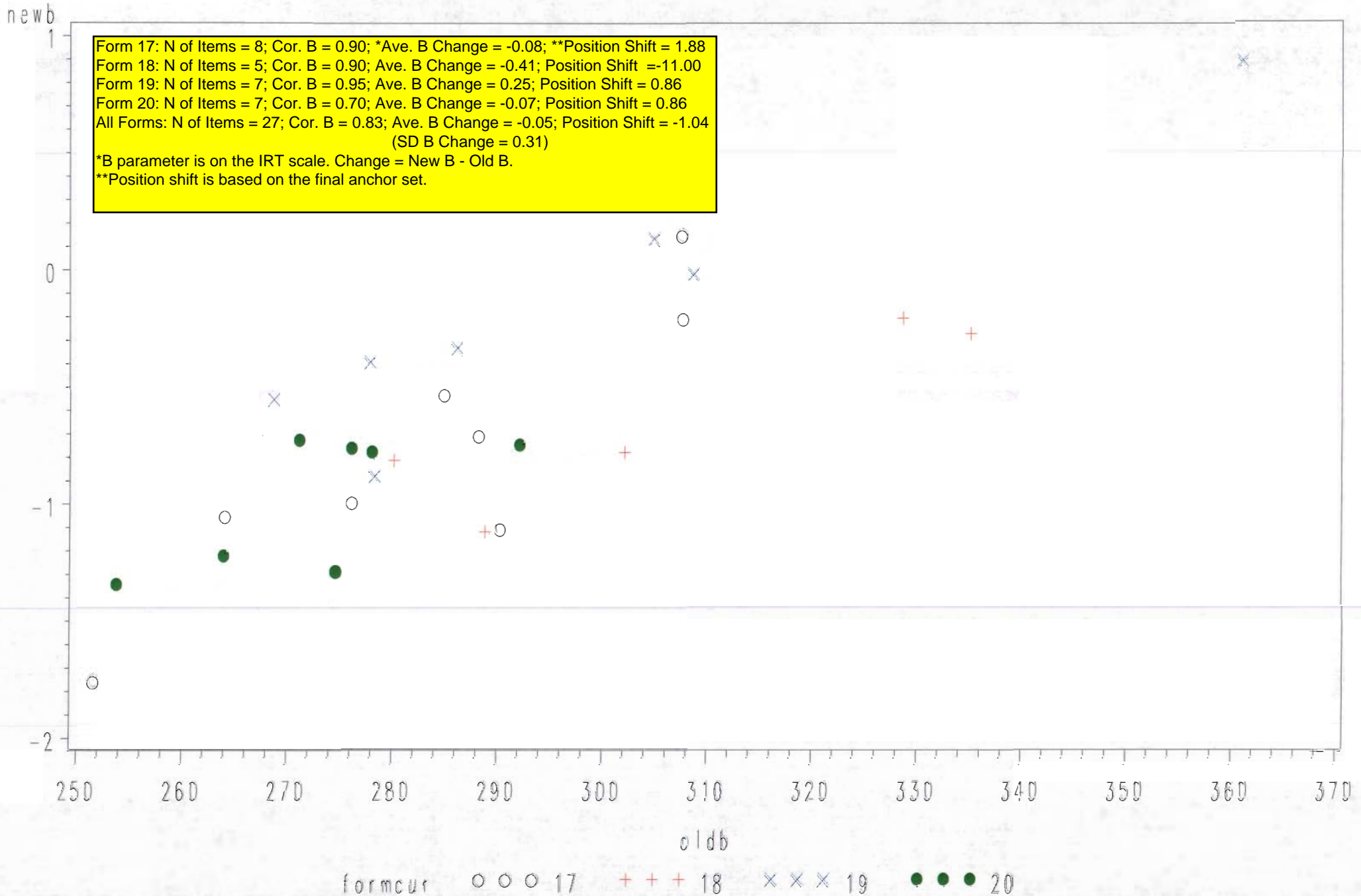
*** Comparison of Item characteristic curves (ICCs): New vs. Old *** a parameter

Form 17: N of Items = 8; Cor. A = 0.81; *Position Shift = 1.88
Form 18: N of Items = 5; Cor. A = 0.98; Position Shift = -11.00
Form 19: N of Items = 7; Cor. A = 0.46; Position Shift = 0.86
Form 20: N of Items = 7; Cor. A = 0.10; Position Shift = 0.86
All Forms: N of Items = 27; Cor. A = 0.66; Position Shift = -1.04

*Position shift is based on the final anchor set.

newa

1.4
1.3
1.2
1.1
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3

0.010 0.011 0.012 0.013 0.014 0.015 0.016 0.017 0.018 0.019 0.020 0.021 0.022 0.023 0.024 0.025 0.026 0.027

olda

formcur   O O O 17   + + + 18   X X X 19   ● ● ● 20

2009 Grade 3 Reading — Final Solution

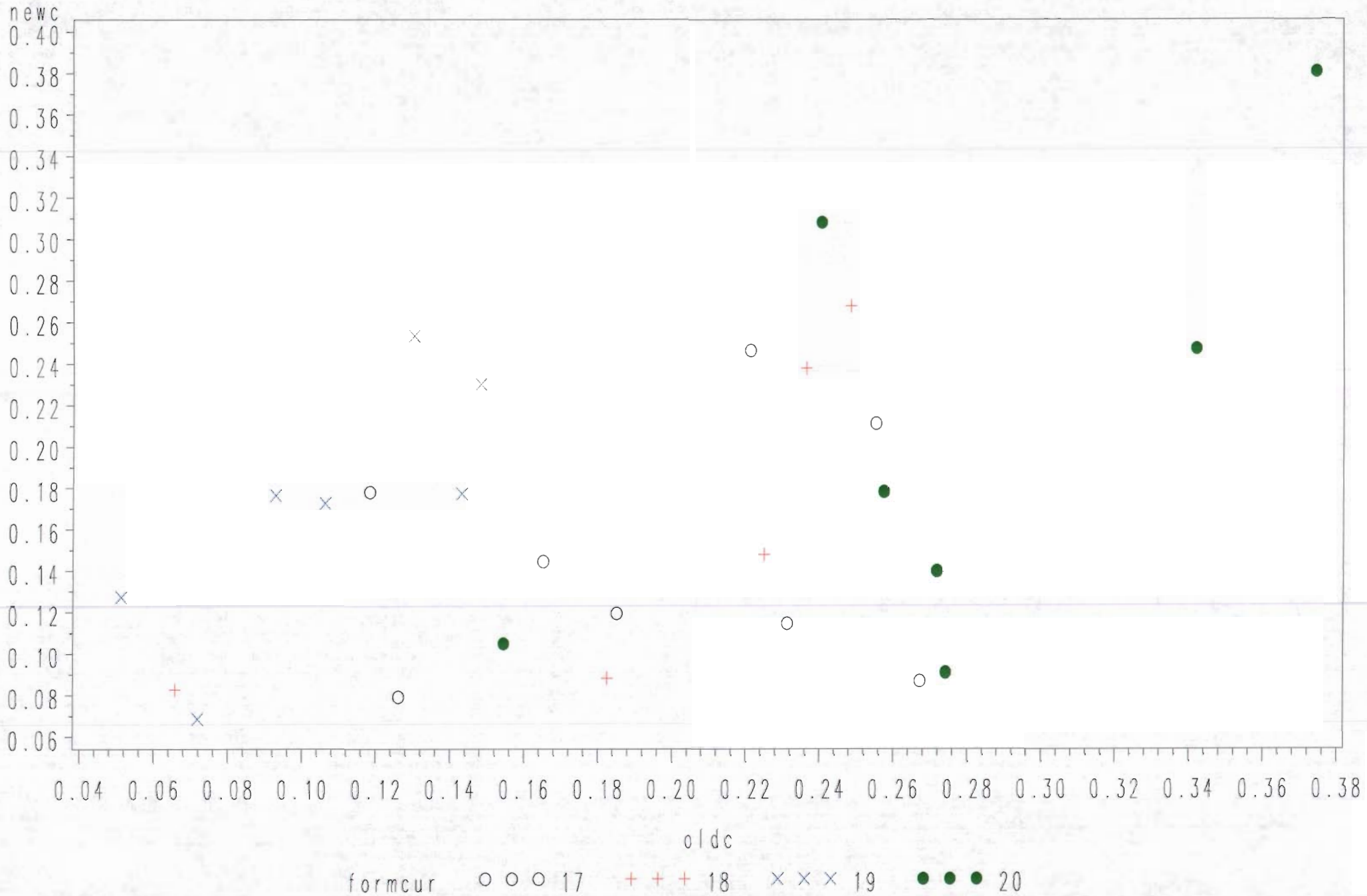## *** Comparison of Item characteristic curves (ICCs): New vs. Old *** b parameter

Form 17: N of Items = 8; Cor. B = 0.90; *Ave. B Change = -0.08; **Position Shift = 1.88
Form 18: N of Items = 5; Cor. B = 0.90; Ave. B Change = -0.41; Position Shift = -11.00
Form 19: N of Items = 7; Cor. B = 0.95; Ave. B Change = 0.25; Position Shift = 0.86
Form 20: N of Items = 7; Cor. B = 0.70; Ave. B Change = -0.07; Position Shift = 0.86
All Forms: N of Items = 27; Cor. B = 0.83; Ave. B Change = -0.05; Position Shift = -1.04
(SD B Change = 0.31)
*B parameter is on the IRT scale. Change = New B - Old B.
**Position shift is based on the final anchor set.
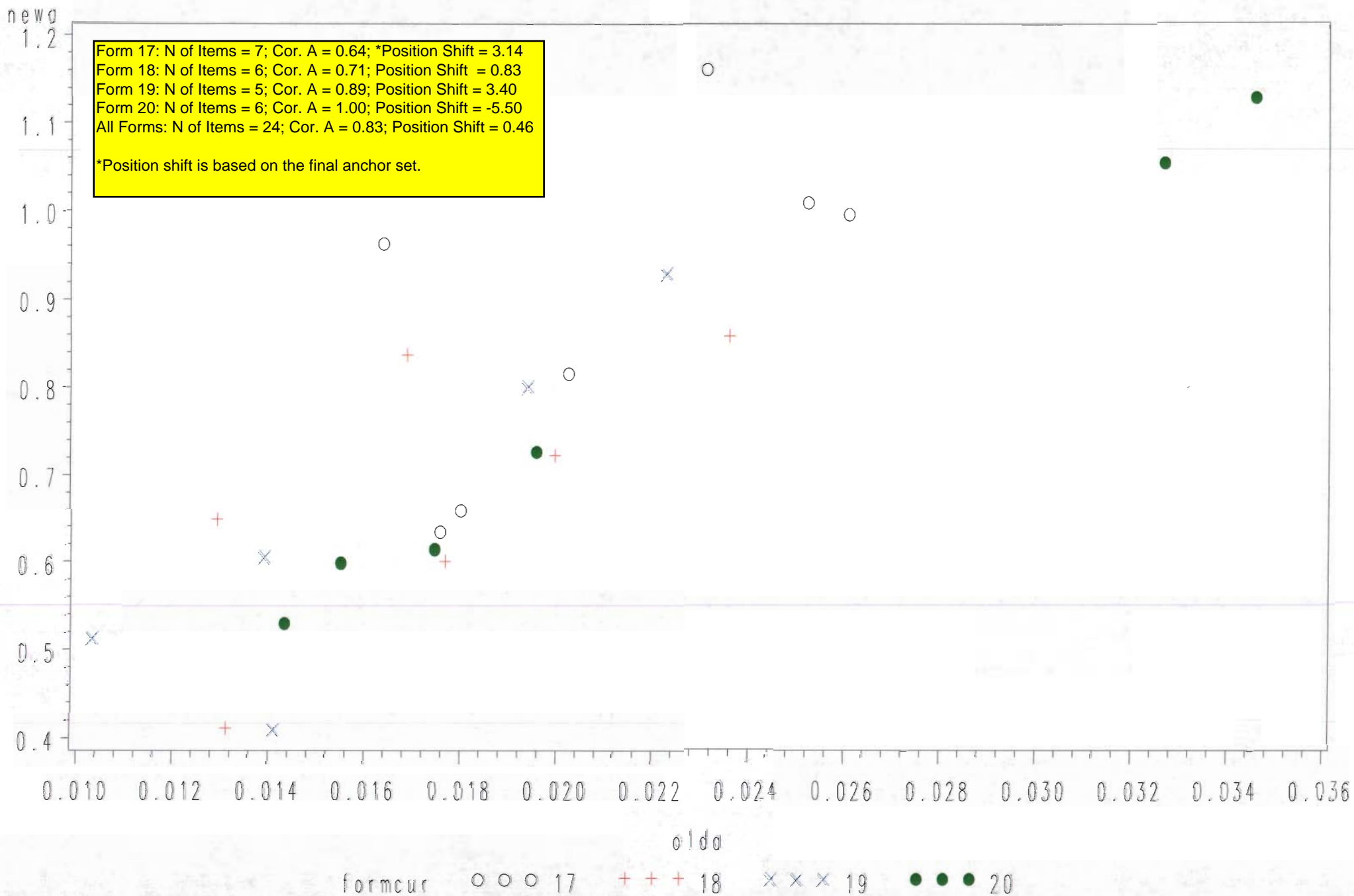
newb

oldb

formcur   O O O 17   + + + 18   X X X 19   ● ● ● 20

2009 Grade 3 Reading – Final Solution

*** Comparison of Item characteristic curves (ICCs): New vs. Old *** c parameter
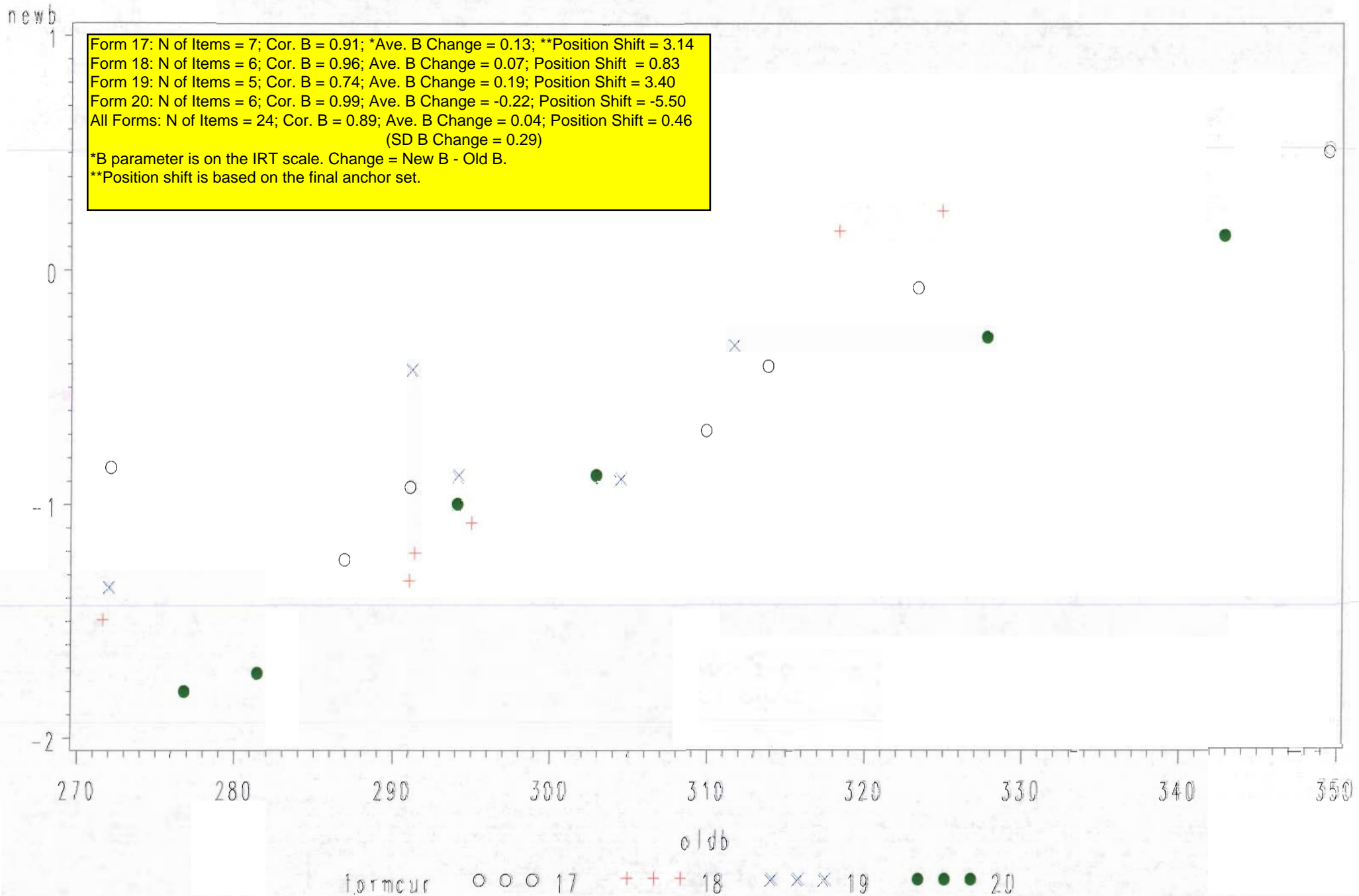

formcur   O O O 17   + + + 18   X X X 19   ● ● ● 20

2009 Grade 4 Reading – Final Solution

*** Comparison of Item characteristic curves (ICCs): New vs. Old *** a parameter

Form 17: N of Items = 7; Cor. A = 0.64; *Position Shift = 3.14
Form 18: N of Items = 6; Cor. A = 0.71; Position Shift = 0.83
Form 19: N of Items = 5; Cor. A = 0.89; Position Shift = 3.40
Form 20: N of Items = 6; Cor. A = 1.00; Position Shift = -5.50
All Forms: N of Items = 24; Cor. A = 0.83; Position Shift = 0.46

*Position shift is based on the final anchor set.

2009 Grade 4 Reading — Final Solution

b parameter

newb

Form 17: N of Items = 7; Cor. B = 0.91; *Ave. B Change = 0.13; **Position Shift = 3.14
Form 18: N of Items = 6; Cor. B = 0.96; Ave. B Change = 0.07; Position Shift = 0.83
Form 19: N of Items = 5; Cor. B = 0.74; Ave. B Change = 0.19; Position Shift = 3.40
Form 20: N of Items = 6; Cor. B = 0.99; Ave. B Change = -0.22; Position Shift = -5.50
All Forms: N of Items = 24; Cor. B = 0.89; Ave. B Change = 0.04; Position Shift = 0.46
                              (SD B Change = 0.29)
*B parameter is on the IRT scale. Change = New B - Old B.
**Position shift is based on the final anchor set.
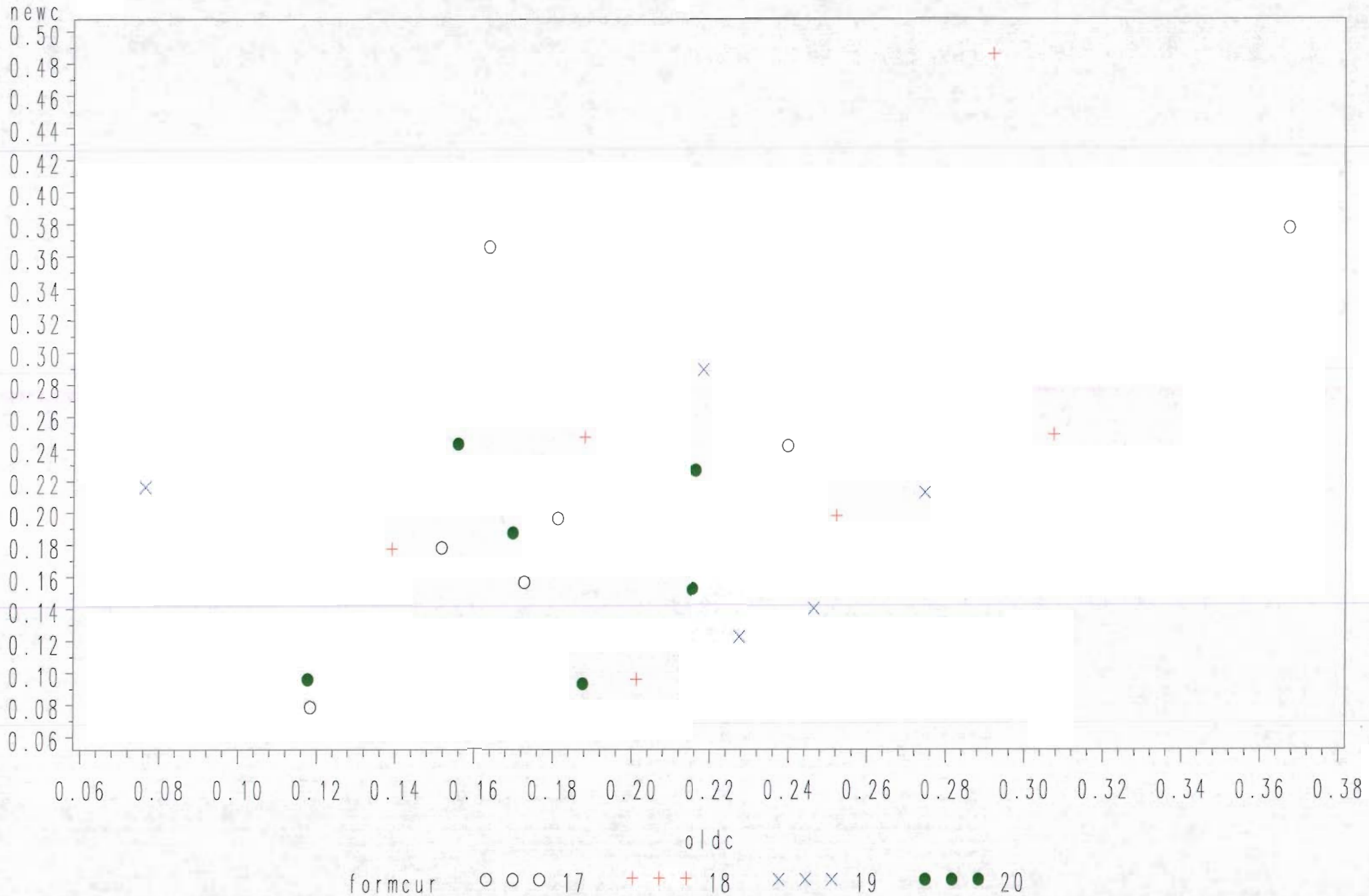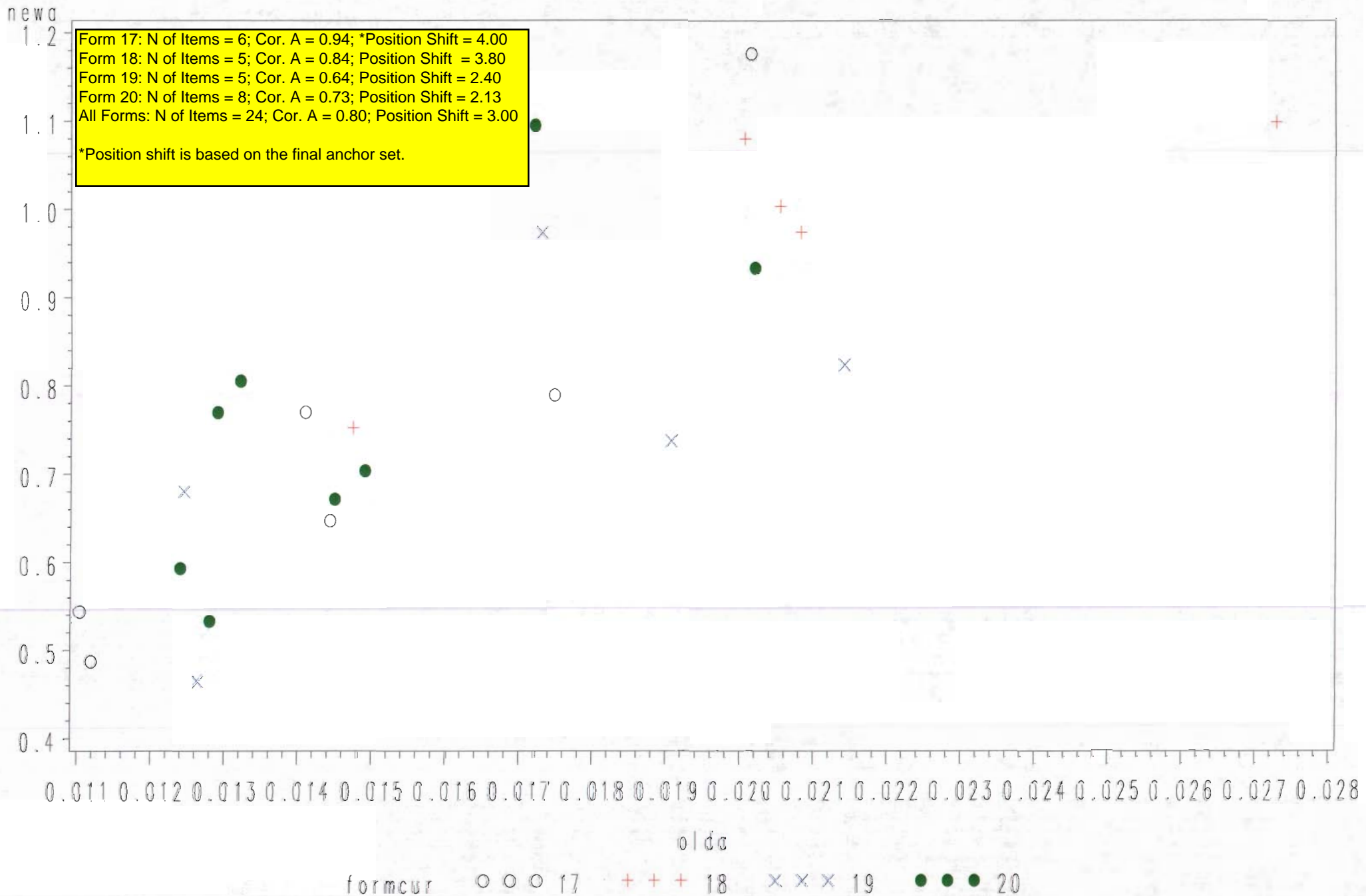
oldb

formcur   o o o 17   + + + 18   x x x 19   ● ● ● 20

2009 Grade 4 Reading – Final Solution

*** Comparison of Item characteristic curves (ICCs): New vs. Old *** c parameter

newc

| oldc |

formcur   ○ ○ ○ 17   + + + 18   × × × 19   ● ● ● 20

2009 Grade 5 Reading – Final Solution

*** Comparison of Item characteristic curves (ICCs): New vs. Old *** a parameter

Form 17: N of Items = 6; Cor. A = 0.94; *Position Shift = 4.00
Form 18: N of Items = 5; Cor. A = 0.84; Position Shift = 3.80
Form 19: N of Items = 5; Cor. A = 0.64; Position Shift = 2.40
Form 20: N of Items = 8; Cor. A = 0.73; Position Shift = 2.13
All Forms: N of Items = 24; Cor. A = 0.80; Position Shift = 3.00

*Position shift is based on the final anchor set.

newa

1.2

1.1

1.0

0.9

0.8

0.7

0.6

0.5

0.4

0.011 0.012 0.013 0.014 0.015 0.016 0.017 0.018 0.019 0.020 0.021 0.022 0.023 0.024 0.025 0.026 0.027 0.028
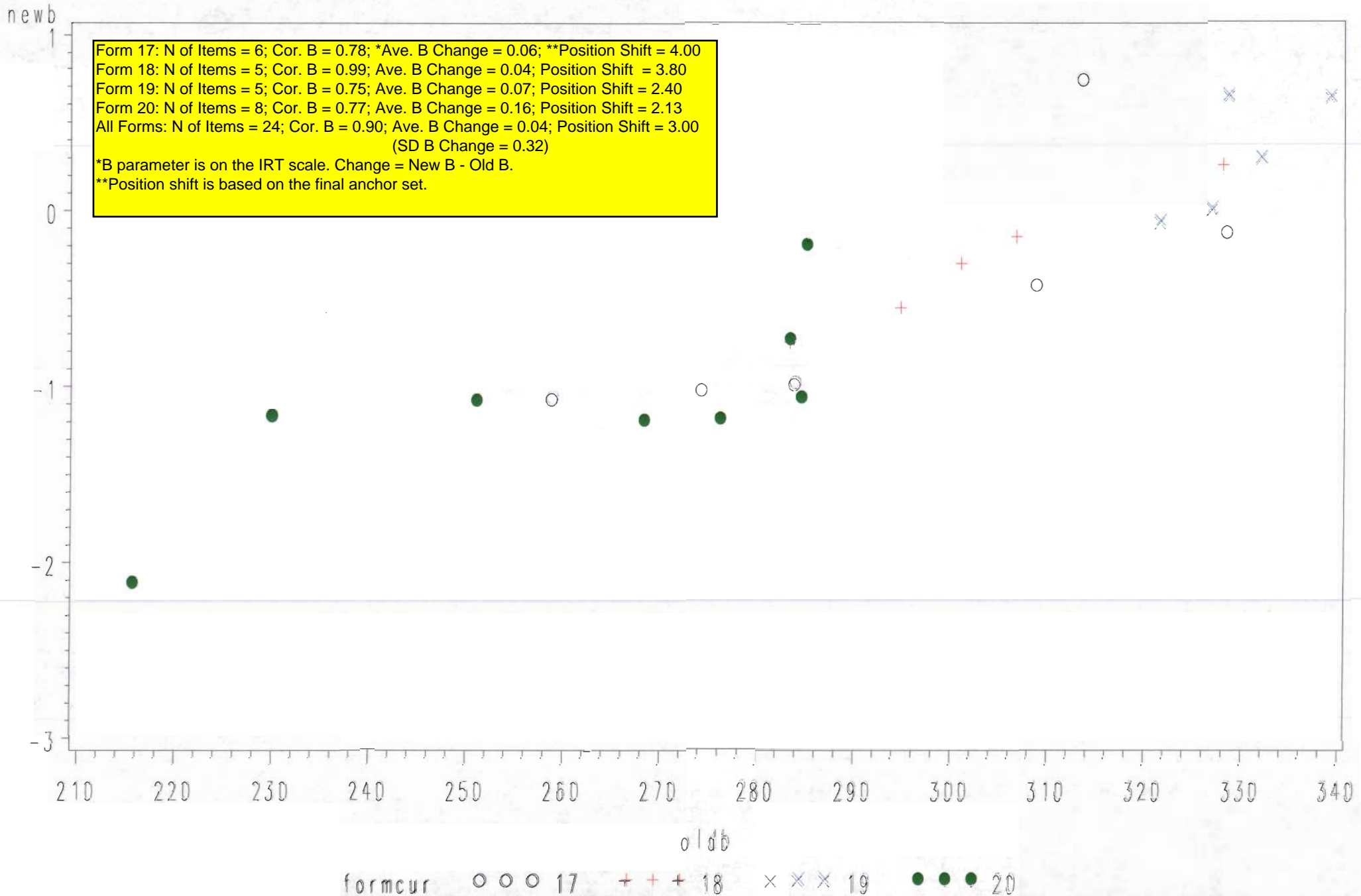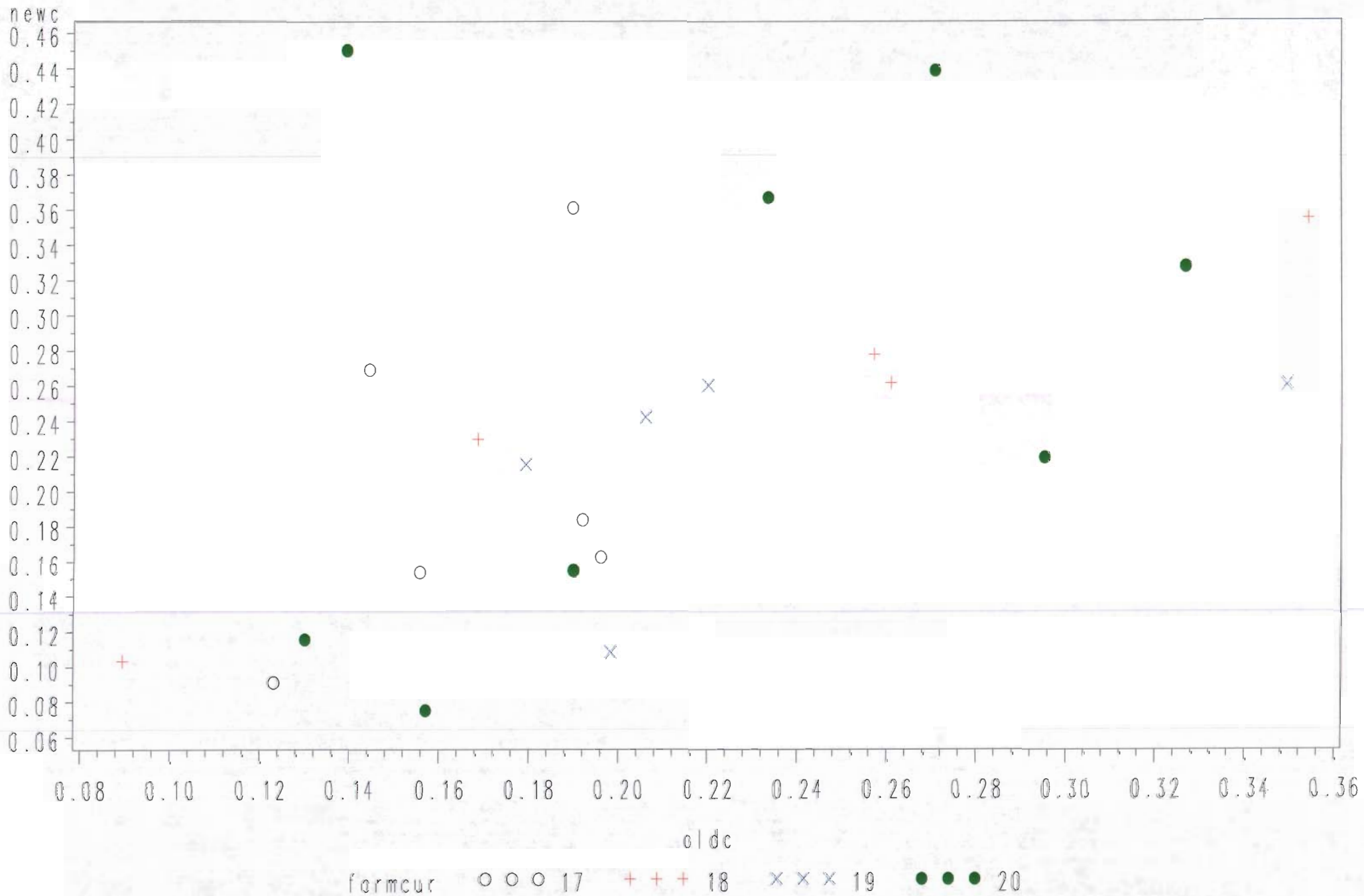
olda

formcur   O O O 17   + + + 18   X X X 19   ● ● ● 20

2009 Grade 5 Reading — Final Solution

*** Comparison of Item characteristic curves (ICCs): New vs. Old *** b parameter

newb

Form 17: N of Items = 6; Cor. B = 0.78; *Ave. B Change = 0.06; **Position Shift = 4.00
Form 18: N of Items = 5; Cor. B = 0.99; Ave. B Change = 0.04; Position Shift = 3.80
Form 19: N of Items = 5; Cor. B = 0.75; Ave. B Change = 0.07; Position Shift = 2.40
Form 20: N of Items = 8; Cor. B = 0.77; Ave. B Change = 0.16; Position Shift = 2.13
All Forms: N of Items = 24; Cor. B = 0.90; Ave. B Change = 0.04; Position Shift = 3.00
(SD B Change = 0.32)
*B parameter is on the IRT scale. Change = New B - Old B.
**Position shift is based on the final anchor set.

olddb

formcur   O O O 17   + + + 18   X X X 19   ● ● ● 20

2009 Grade 5 Reading – Final Solution
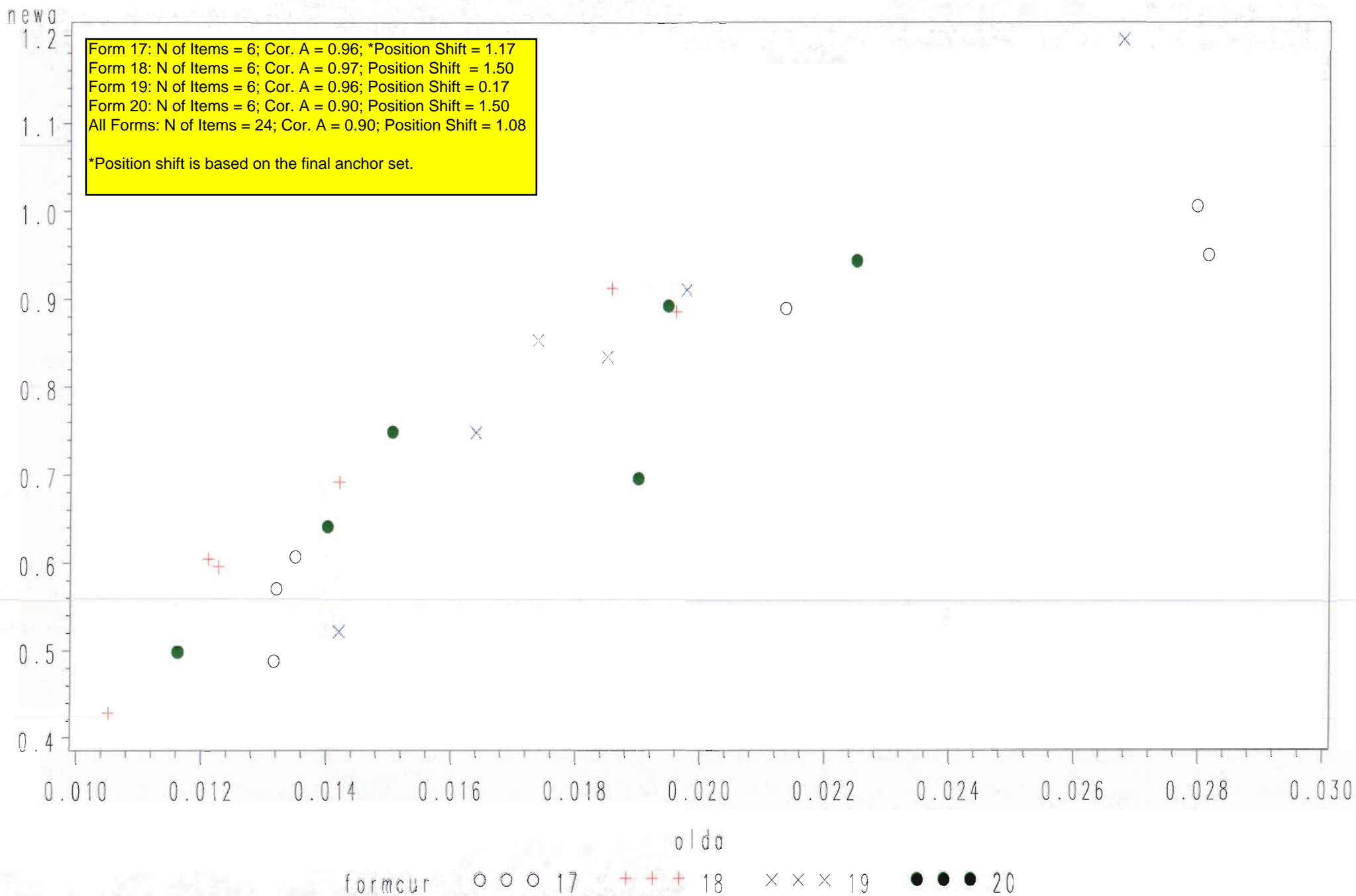
c parameter

newc

| oldc |

formcur ○ ○ ○ 17   + + + 18   × × × 19   ● ● ● 20

2009 Grade 6 Reading – Final Solution

*** Comparison of Item characteristic curves (ICCs): New vs. Old *** a parameter

Form 17: N of Items = 6; Cor. A = 0.96; *Position Shift = 1.17
Form 18: N of Items = 6; Cor. A = 0.97; Position Shift = 1.50
Form 19: N of Items = 6; Cor. A = 0.96; Position Shift = 0.17
Form 20: N of Items = 6; Cor. A = 0.90; Position Shift = 1.50
All Forms: N of Items = 24; Cor. A = 0.90; Position Shift = 1.08

*Position shift is based on the final anchor set.

newa

olda

formcur   O O O 17   + + + 18   X X X 19   ● ● ● 20

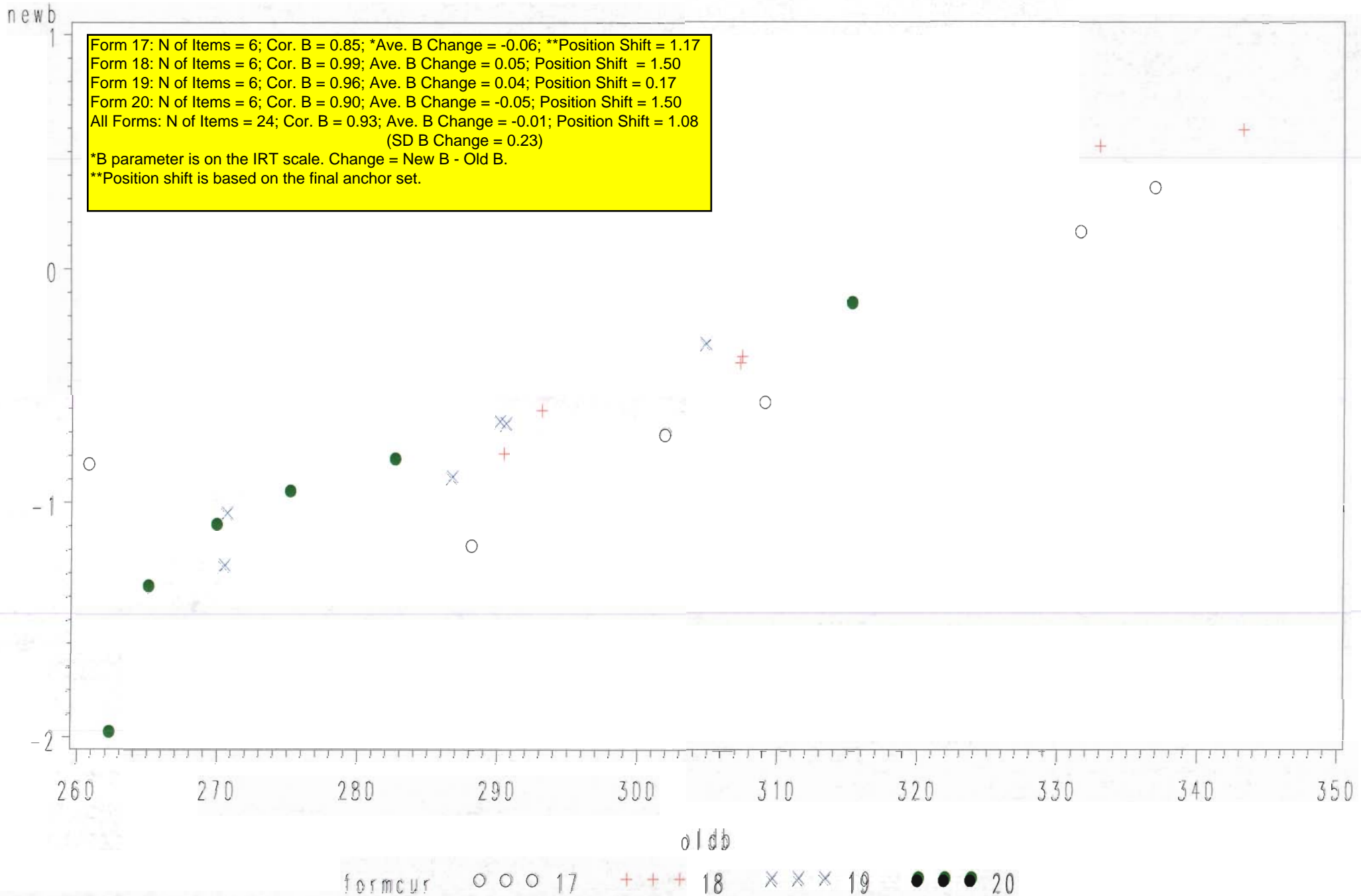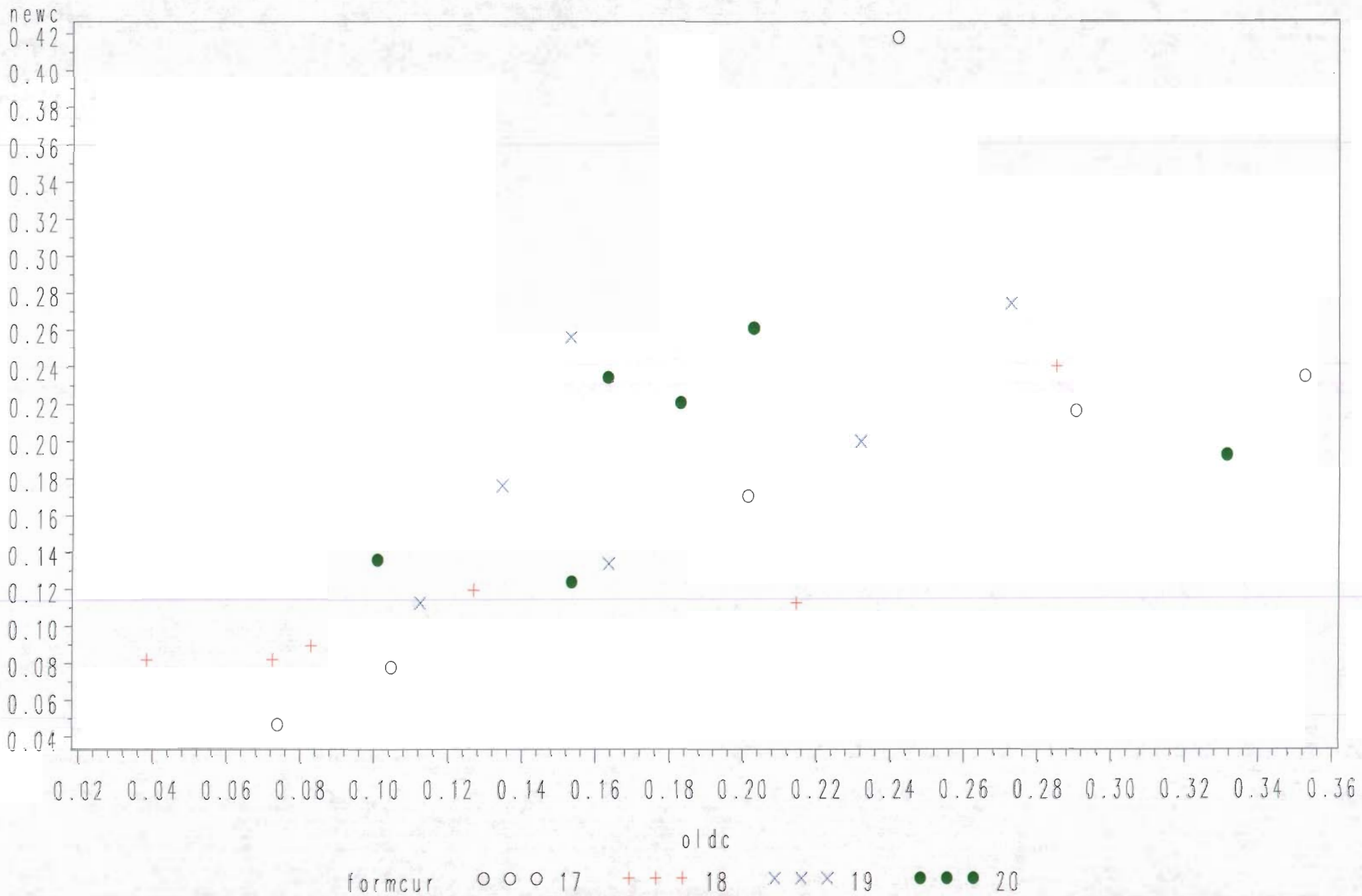# 2009 Grade 6 Reading – Final Solution

*** Comparison of Item characteristic curves (ICCs): New vs. Old *** b parameter

Form 17: N of Items = 6; Cor. B = 0.85; *Ave. B Change = -0.06; **Position Shift = 1.17
Form 18: N of Items = 6; Cor. B = 0.99; Ave. B Change = 0.05; Position Shift = 1.50
Form 19: N of Items = 6; Cor. B = 0.96; Ave. B Change = 0.04; Position Shift = 0.17
Form 20: N of Items = 6; Cor. B = 0.90; Ave. B Change = -0.05; Position Shift = 1.50
All Forms: N of Items = 24; Cor. B = 0.93; Ave. B Change = -0.01; Position Shift = 1.08
(SD B Change = 0.23)
*B parameter is on the IRT scale. Change = New B - Old B.
**Position shift is based on the final anchor set.
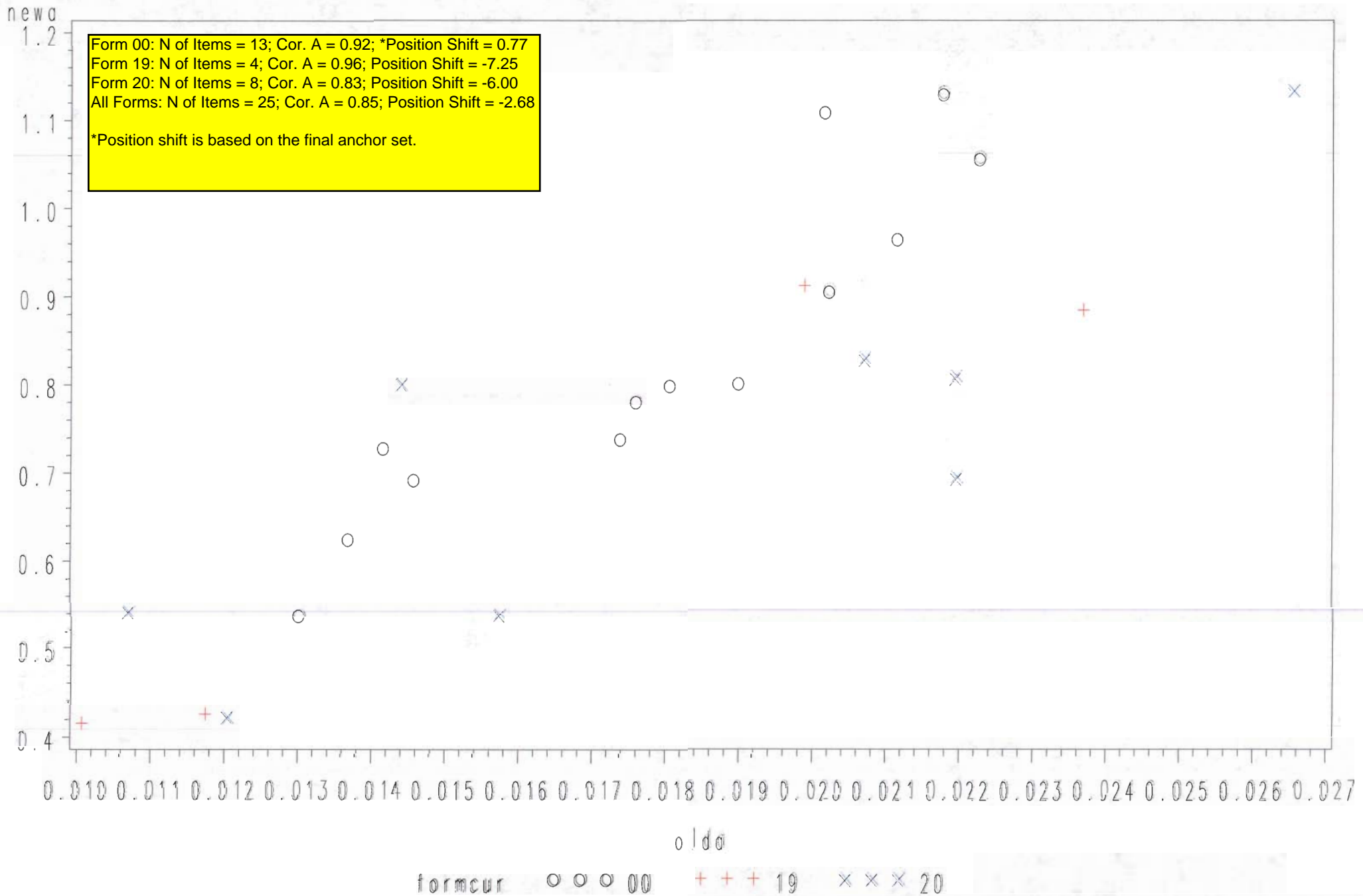
newb

oldb

formcur   O O O 17   + + + 18   X X X 19   ● ● ● 20

2009 Grade 6 Reading – Final Solution

*** Comparison of Item characteristic curves (ICCs): New vs. Old *** c parameter

newc

0.42
0.40
0.38
0.36
0.34
0.32
0.30
0.28
0.26
0.24
0.22
0.20
0.18
0.16
0.14
0.12
0.10
0.08
0.06
0.04

0.02 0.04 0.06 0.08 0.10 0.12 0.14 0.16 0.18 0.20 0.22 0.24 0.26 0.28 0.30 0.32 0.34 0.36
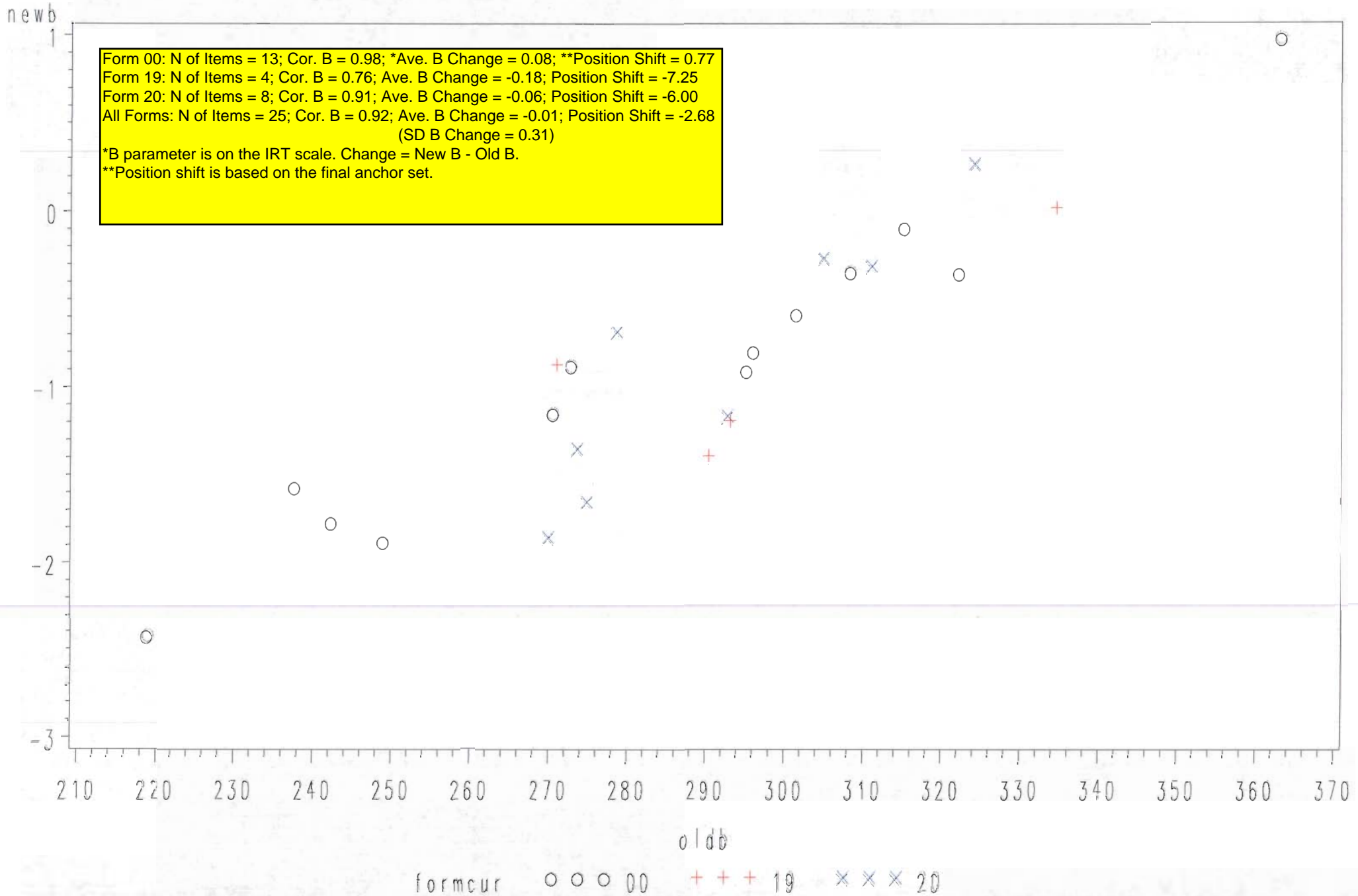
oldc

formcur   ○ ○ ○ 17   + + + 18   × × × 19   ● ● ● 20

2009 Grade 7 Reading – Final Solution

*** Comparison of Item characteristic curves (ICCs): New vs. Old *** a parameter

Form 00: N of Items = 13; Cor. A = 0.92; *Position Shift = 0.77
Form 19: N of Items = 4; Cor. A = 0.96; Position Shift = -7.25
Form 20: N of Items = 8; Cor. A = 0.83; Position Shift = -6.00
All Forms: N of Items = 25; Cor. A = 0.85; Position Shift = -2.68

*Position shift is based on the final anchor set.

newa

1.2
1.1
1.0
0.9
0.8
0.7
0.6
0.5
0.4

0.010 0.011 0.012 0.013 0.014 0.015 0.016 0.017 0.018 0.019 0.020 0.021 0.022 0.023 0.024 0.025 0.026 0.027
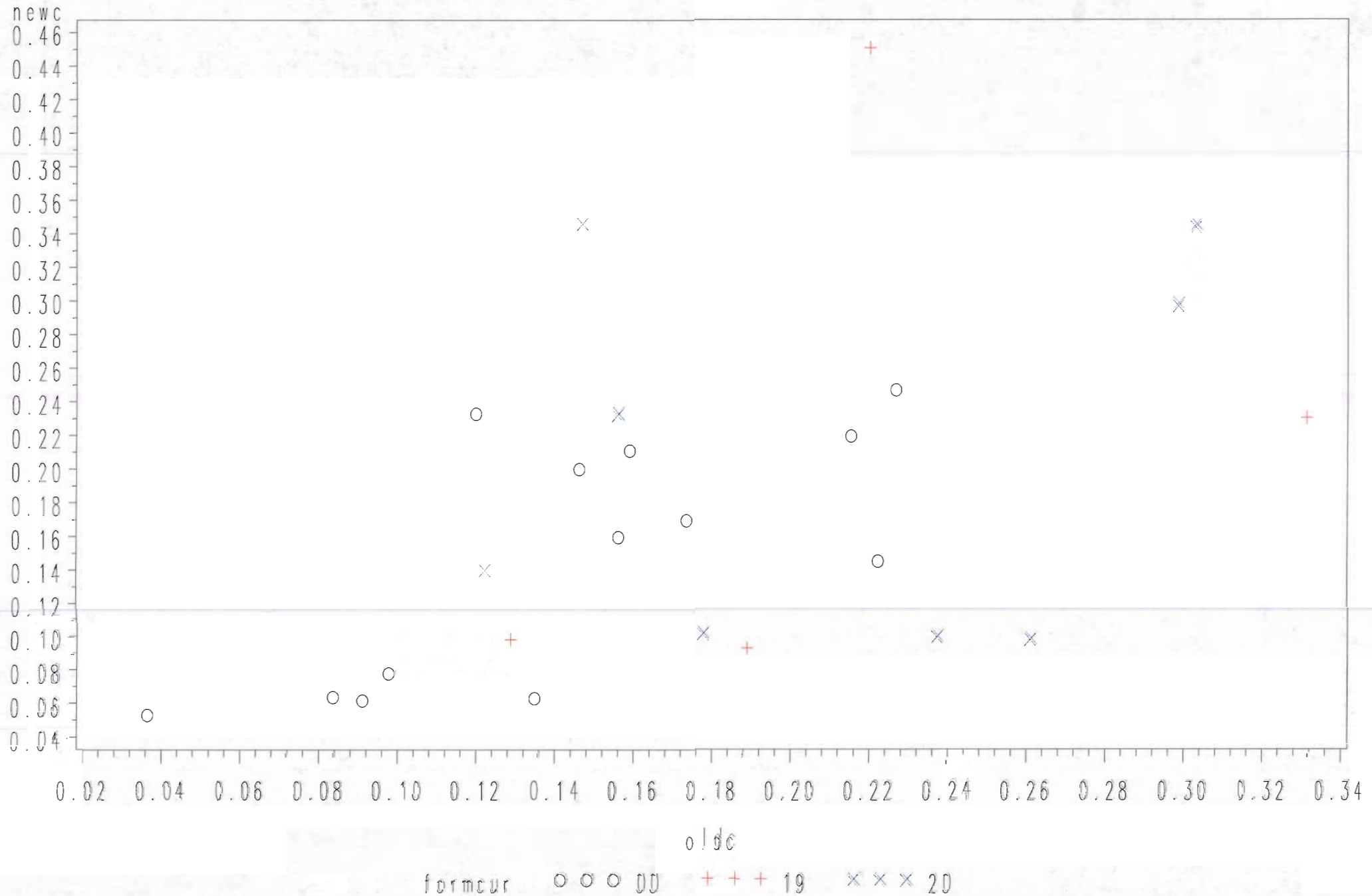
olda

formcur   o o o 00   + + + 19   x x x 20

2009 Grade 7 Reading – Final Solution

*** Comparison of Item characteristic curves (ICCs): New vs. Old *** b parameter

newb

Form 00: N of Items = 13; Cor. B = 0.98; *Ave. B Change = 0.08; **Position Shift = 0.77
Form 19: N of Items = 4; Cor. B = 0.76; Ave. B Change = -0.18; Position Shift = -7.25
Form 20: N of Items = 8; Cor. B = 0.91; Ave. B Change = -0.06; Position Shift = -6.00
All Forms: N of Items = 25; Cor. B = 0.92; Ave. B Change = -0.01; Position Shift = -2.68
(SD B Change = 0.31)
*B parameter is on the IRT scale. Change = New B - Old B.
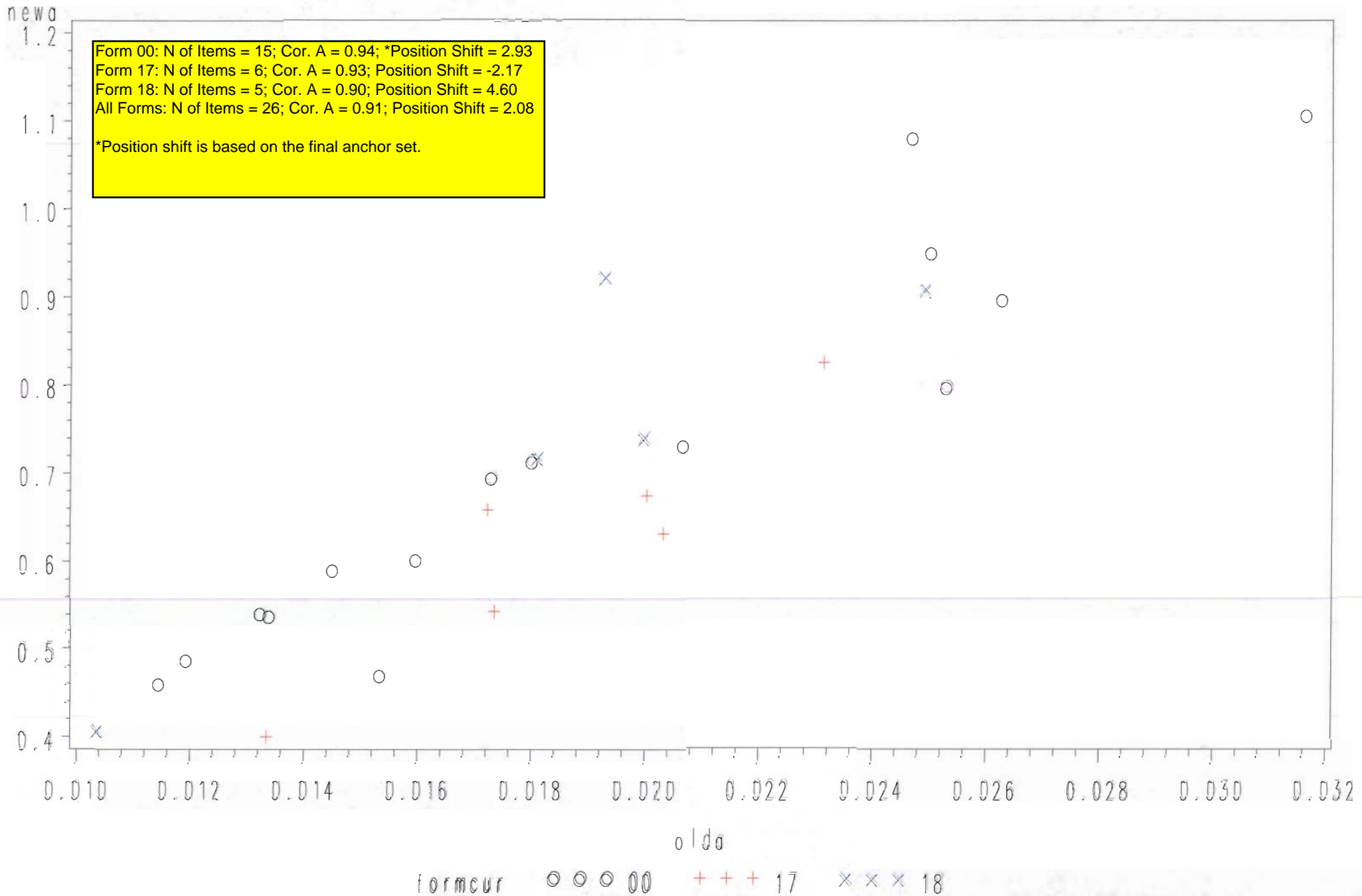**Position shift is based on the final anchor set.

oldb

formcur   O O O 00   + + + 19   ✕ ✕ ✕ 20

2009 Grade 7 Reading – Final Solution

*** Comparison of Item characteristic curves (ICCs): New vs. Old *** c parameter
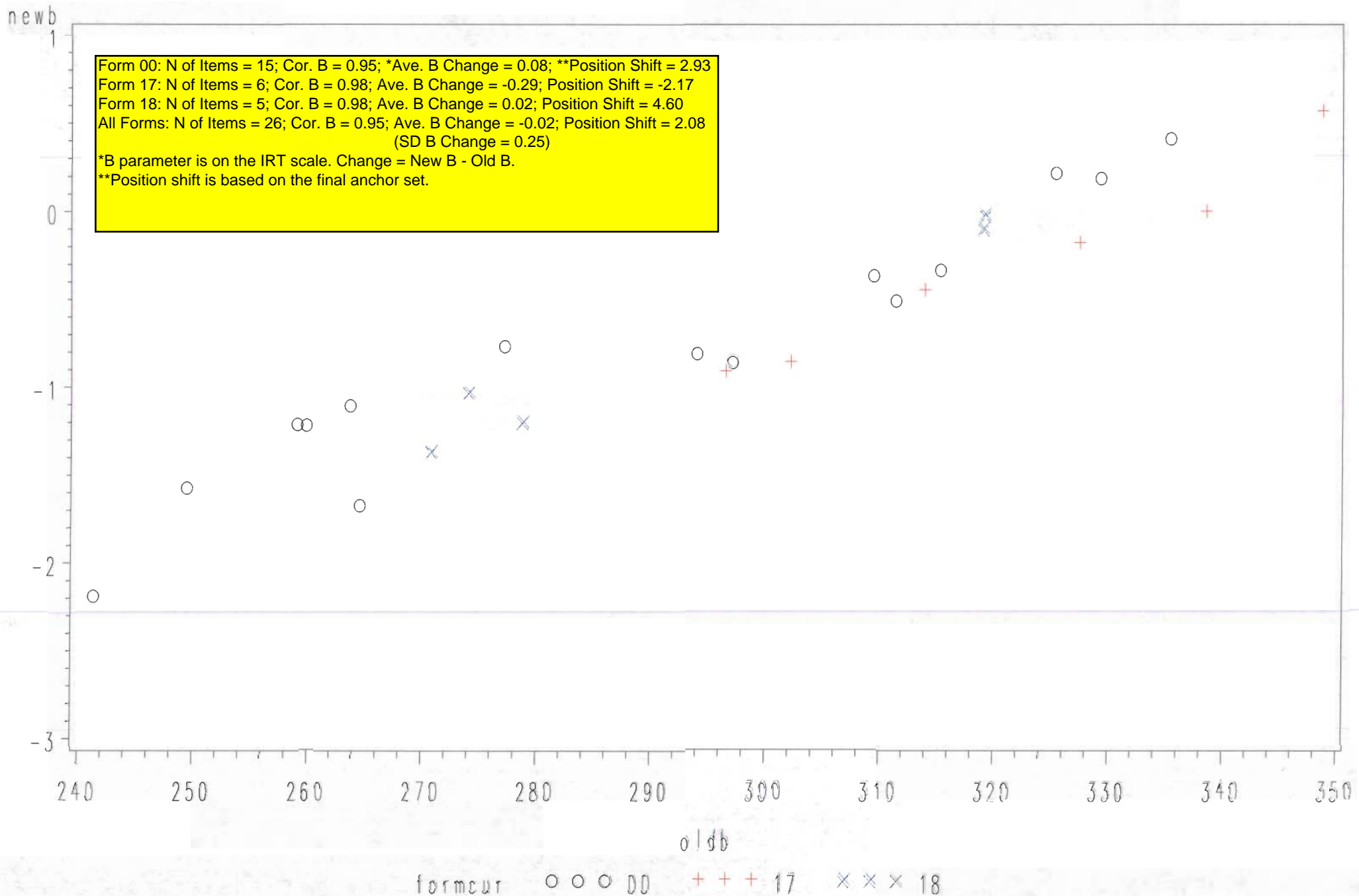

formcur O O O OO   + + + 19   × × × 20

2009 Grade 8 Reading – Final Solution

*** Comparison of Item characteristic curves (ICCs): New vs. Old *** a parameter

newa

Form 00: N of Items = 15; Cor. A = 0.94; *Position Shift = 2.93
Form 17: N of Items = 6; Cor. A = 0.93; Position Shift = -2.17
Form 18: N of Items = 5; Cor. A = 0.90; Position Shift = 4.60
All Forms: N of Items = 26; Cor. A = 0.91; Position Shift = 2.08

*Position shift is based on the final anchor set.

olda

formcur   ⊙ ⊙ ⊙ 00   + + + 17   ✕ ✕ ✕ 18

2009 Grade 8 Reading – Final Solution

newb

Form 00: N of Items = 15; Cor. B = 0.95; *Ave. B Change = 0.08; **Position Shift = 2.93
Form 17: N of Items = 6; Cor. B = 0.98; Ave. B Change = -0.29; Position Shift = -2.17
Form 18: N of Items = 5; Cor. B = 0.98; Ave. B Change = 0.02; Position Shift = 4.60
All Forms: N of Items = 26; Cor. B = 0.95; Ave. B Change = -0.02; Position Shift = 2.08
(SD B Change = 0.25)
*B parameter is on the IRT scale. Change = New B - Old B.
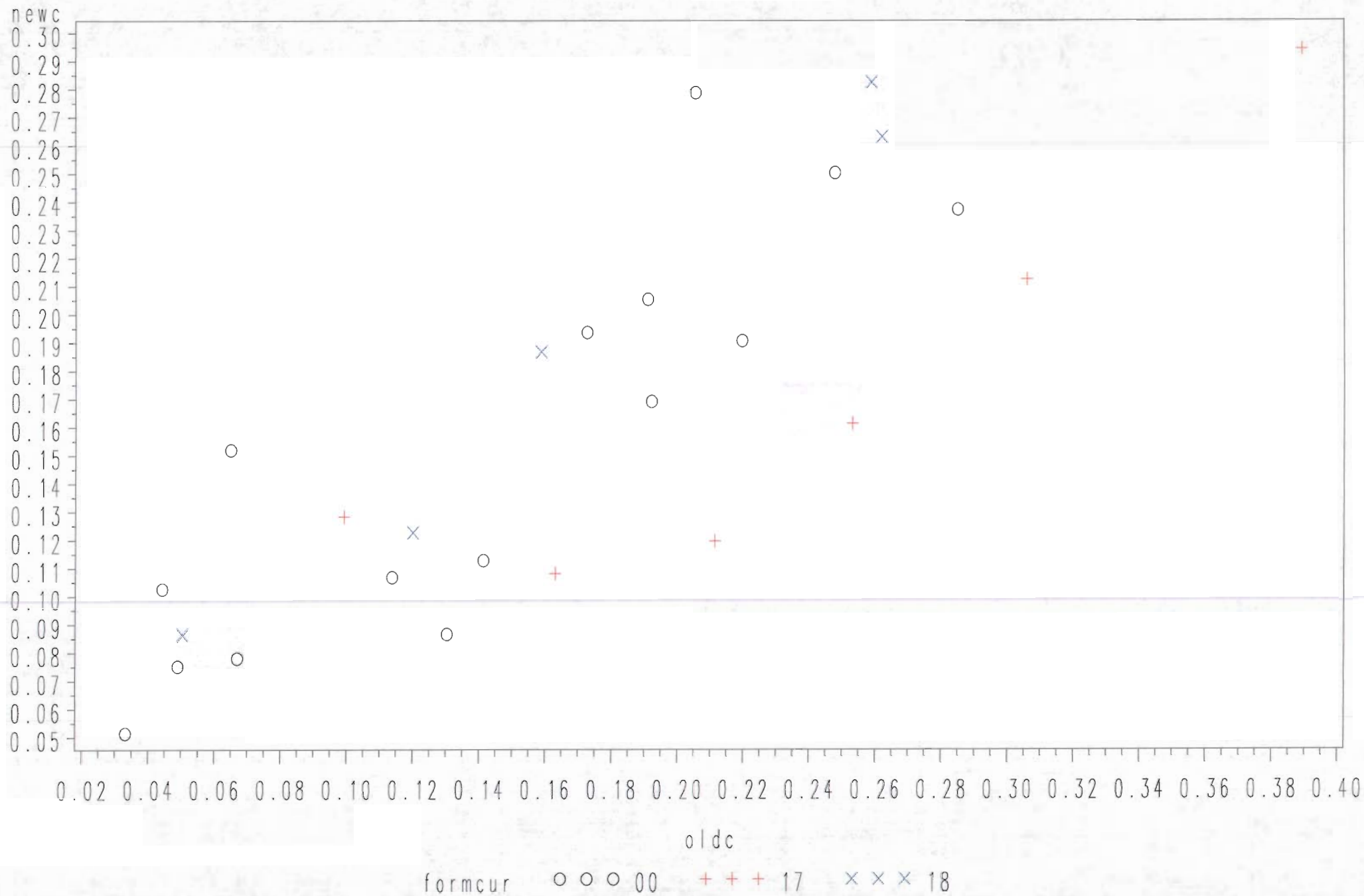**Position shift is based on the final anchor set.

oldb

formcur O O O 00   + + + 17   × × × 18

2009 Grade 8 Reading – Final Solution

*** Comparison of Item characteristic curves (ICCs): New vs. Old *** c parameter

formcur O O O OO   + + + 17   X X X 18

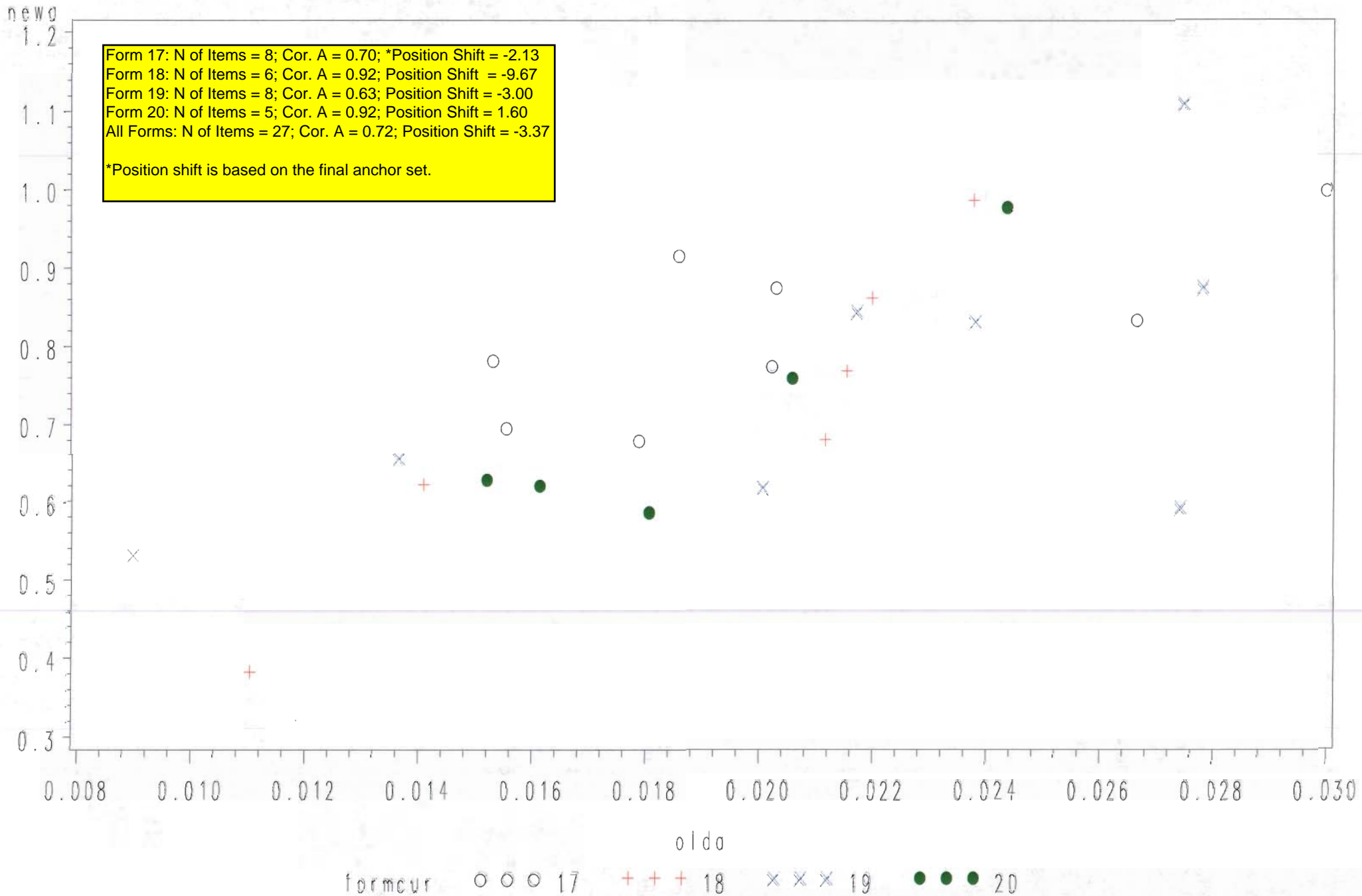# 2009 Grade 9 Reading – Final Solution

*** Comparison of Item characteristic curves (ICCs): New vs. Old *** a parameter

Form 17: N of Items = 8; Cor. A = 0.70; *Position Shift = -2.13
Form 18: N of Items = 6; Cor. A = 0.92; Position Shift = -9.67
Form 19: N of Items = 8; Cor. A = 0.63; Position Shift = -3.00
Form 20: N of Items = 5; Cor. A = 0.92; Position Shift = 1.60
All Forms: N of Items = 27; Cor. A = 0.72; Position Shift = -3.37

*Position shift is based on the final anchor set.

newa

olda

formcur   O O O 17   + + + 18   × × × 19   ● ● ● 20

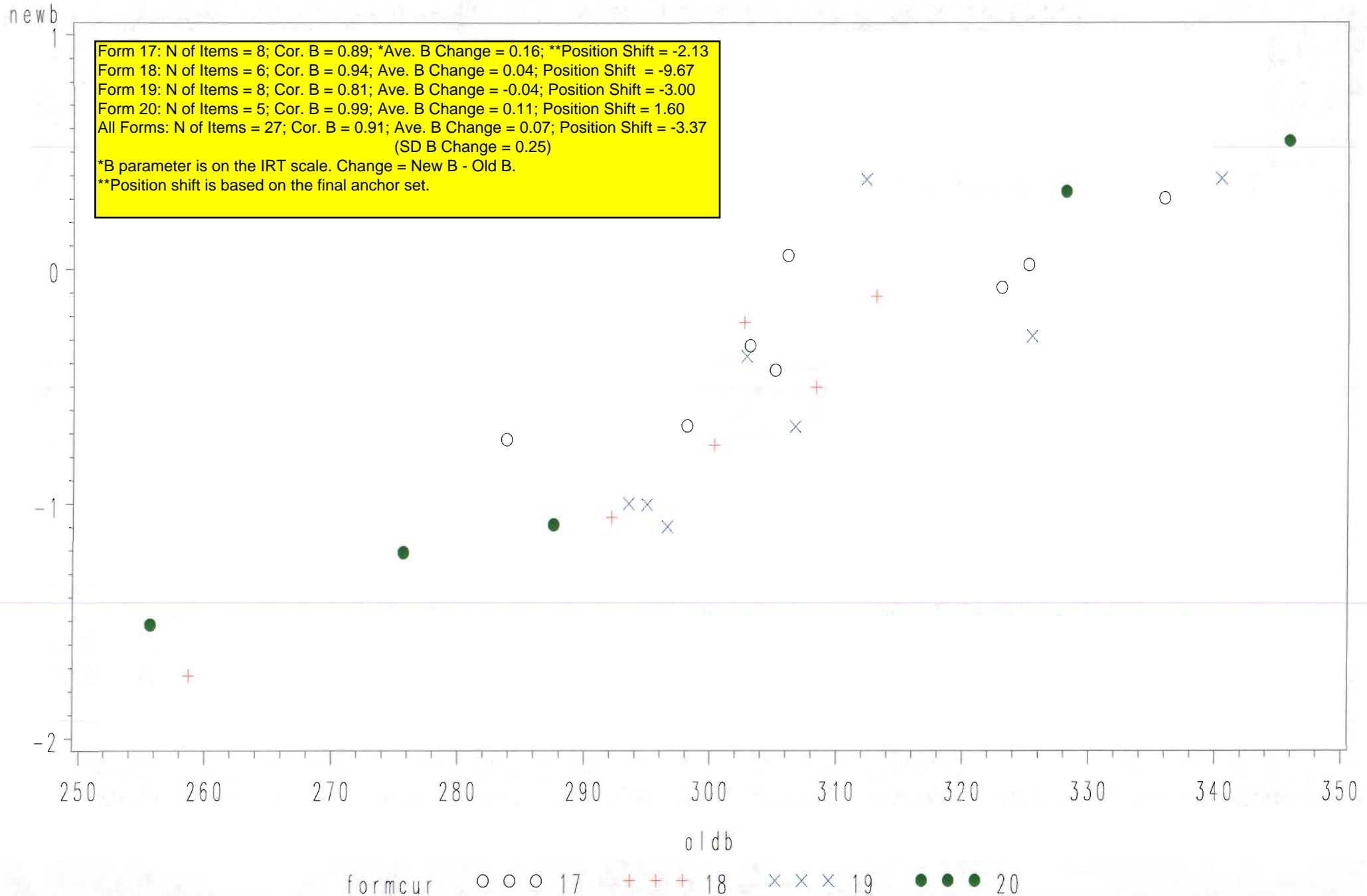# 2009 Grade 9 Reading – Final Solution

*** Comparison of Item characteristic curves (ICCs): New vs. Old *** b parameter

newb

Form 17: N of Items = 8; Cor. B = 0.89; *Ave. B Change = 0.16; **Position Shift = -2.13
Form 18: N of Items = 6; Cor. B = 0.94; Ave. B Change = 0.04; Position Shift = -9.67
Form 19: N of Items = 8; Cor. B = 0.81; Ave. B Change = -0.04; Position Shift = -3.00
Form 20: N of Items = 5; Cor. B = 0.99; Ave. B Change = 0.11; Position Shift = 1.60
All Forms: N of Items = 27; Cor. B = 0.91; Ave. B Change = 0.07; Position Shift = -3.37
(SD B Change = 0.25)
*B parameter is on the IRT scale. Change = New B - Old B.
**Position shift is based on the final anchor set.
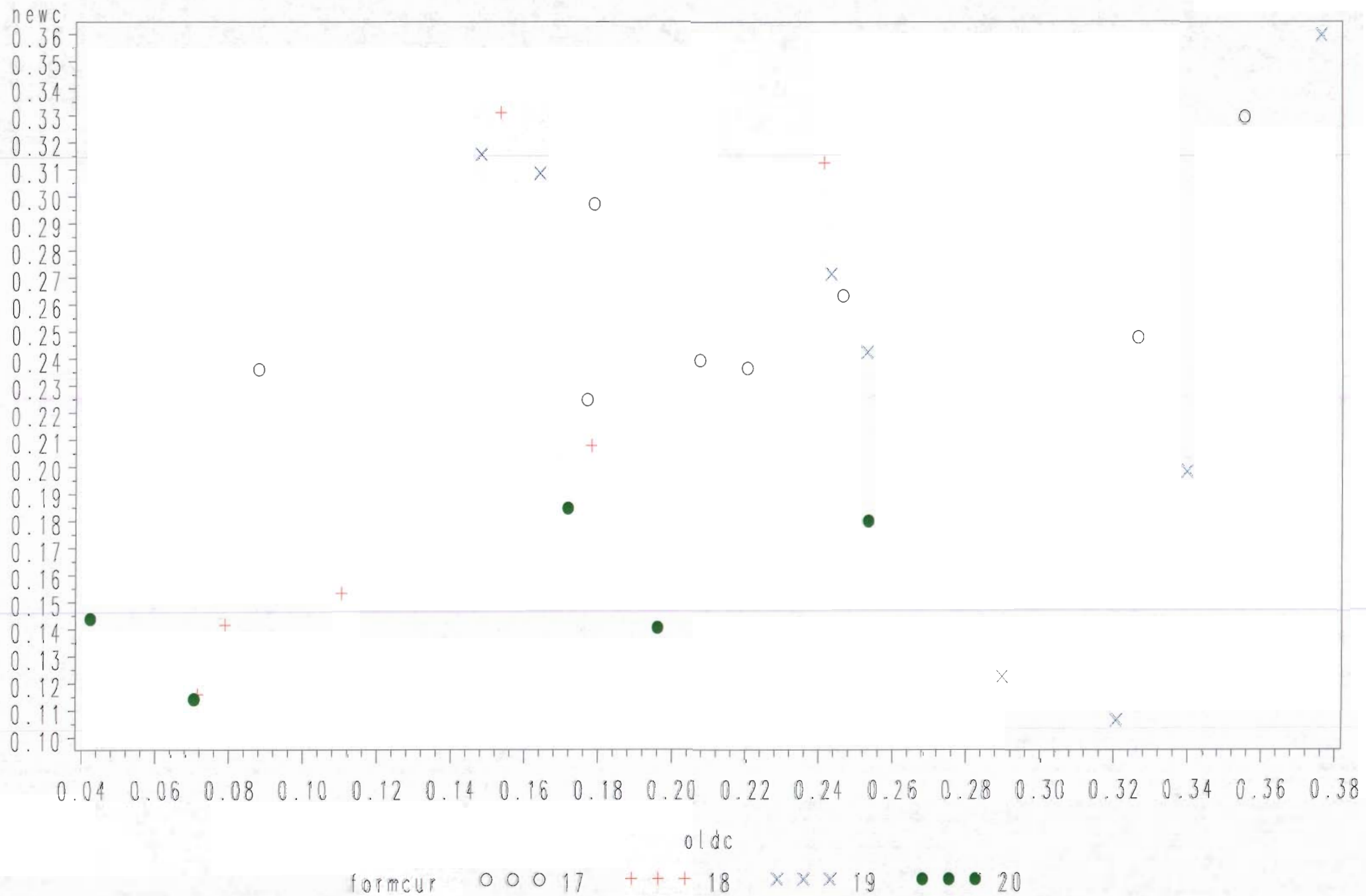
oldb

formcur   O O O 17   + + + 18   X X X 19   ● ● ● 20

2009 Grade 9 Reading – Final Solution

*** Comparison of Item characteristic curves (ICCs): New vs. Old *** c parameter

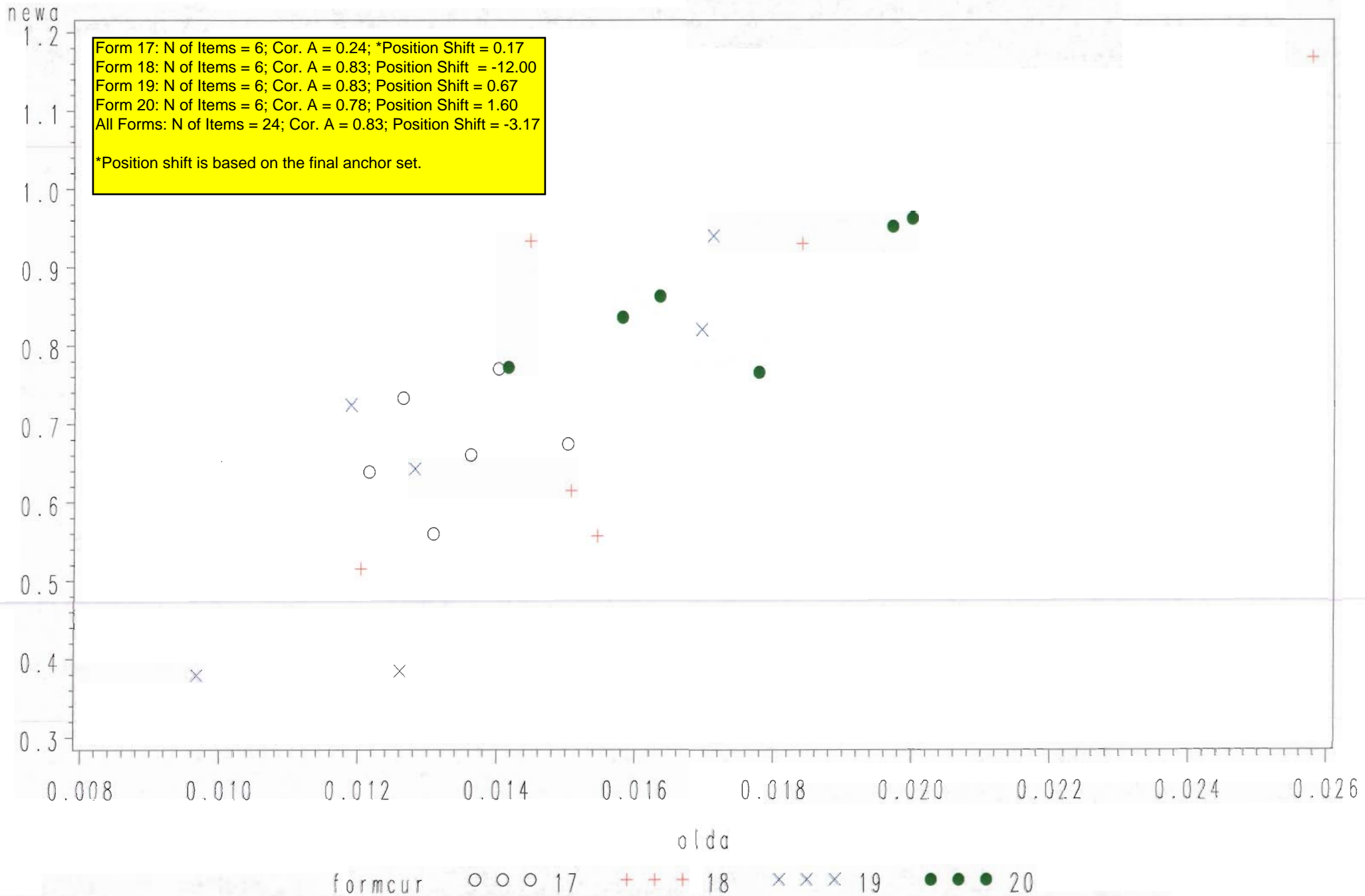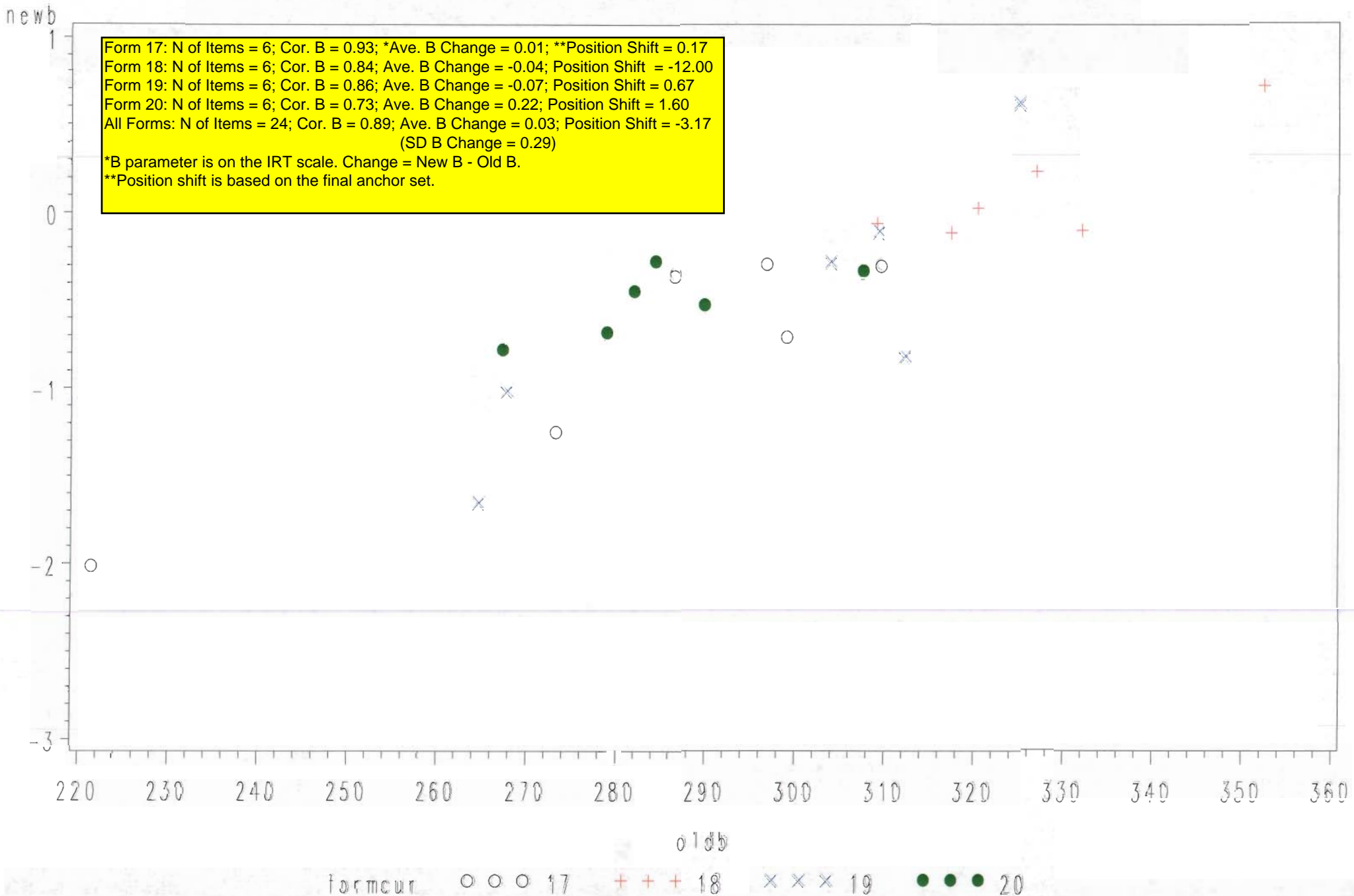formcur   ○ ○ ○ 17   + + + 18   × × × 19   ● ● ● 20

2009 Grade 10 Reading – Final Solution

*** Comparison of Item characteristic curves (ICCs): New vs. Old *** a parameter

newa

Form 17: N of Items = 6; Cor. A = 0.24; *Position Shift = 0.17
Form 18: N of Items = 6; Cor. A = 0.83; Position Shift = -12.00
Form 19: N of Items = 6; Cor. A = 0.83; Position Shift = 0.67
Form 20: N of Items = 6; Cor. A = 0.78; Position Shift = 1.60
All Forms: N of Items = 24; Cor. A = 0.83; Position Shift = -3.17

*Position shift is based on the final anchor set.

olda

formcur O O O 17   + + + 18   × × × 19   ● ● ● 20

2009 Grade 10 Reading — Final Solution

Form 17: N of Items = 6; Cor. B = 0.93; *Ave. B Change = 0.01; **Position Shift = 0.17
Form 18: N of Items = 6; Cor. B = 0.84; Ave. B Change = -0.04; Position Shift = -12.00
Form 19: N of Items = 6; Cor. B = 0.86; Ave. B Change = -0.07; Position Shift = 0.67
Form 20: N of Items = 6; Cor. B = 0.73; Ave. B Change = 0.22; Position Shift = 1.60
All Forms: N of Items = 24; Cor. B = 0.89; Ave. B Change = 0.03; Position Shift = -3.17
(SD B Change = 0.29)
*B parameter is on the IRT scale. Change = New B - Old B.
**Position shift is based on the final anchor set.

formcur   ○ ○ ○ 17   + + + 18   × × × 19   ● ● ● 20

2009 Grade 10 Reading — Final Solution

*** Comparison of Item characteristic curves (ICCs): New vs. Old *** c parameter

formcur   ○ ○ ○ 17   + + + 18   × × × 19   ● ● ● 20