SMARTERAPP SPECIFICATION

for

ADMINISTRATION TEST PACKAGE FORMAT

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Updated

6 June 2016

Revision History

Version	Revision Description	Author/Modifier	Date
1.0	Initial Release	Jeff Treuting (Fairway)	June 6, 2016

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Purpose

The purpose of this document is to provide a format specification describing the Administration Test Package for the Test Delivery System (TDS). This package defines the test and is used to load the test into TDS and the Test Integration System (TIS).

Package Usage

Test Delivery System

In order to load the test into TDS, the contents of the XMl file are passed to the *loader_main* stored procedure in the *itembank* database on the TDS MySQL server.

Test Integration System

The *tp.spLoader_Main* stored procedure located in the *OSS_Itembank* database on the TIS SQL Server instance is used to load this test into TIS in order to allow scoring of the test.

Test Package Data Format Conventions

Table 1 provides information regarding the XML test package format, such as the allowable values, sizes, and descriptions, as well as any standards alignment. Also included in this document are a sample XML test package. The fields in Table 1 below follow these conventions:

- **Case sensitivity**: Field names are case sensitive and follow the guideline that the XML *Node/Element* and node *attributes* are in lowercase.
- **Order sensitivity**: Fields are not order-sensitive.
- **Non-required (optional) fields:** By default, these fields do not need to be included in the XML file. A missing optional field is simply treated as not present or not applicable.

Administration Test Package Format Specification

Category / Node (XML Element)	Field Name (attribute)	XML Hierarchy	Width (chars)	Required	Data Element Description	Acceptable Values	Data Type
testspecification		testspecification					
	purpose		100	Always	Defines the purpose of this test package which, in general, can be administration, registration, scoring and reporting. For the administration package it can only be set to administration.	administration	xsd:token
	publisher		255	Always	The publisher of this package	One or more printable ASCII characters	xsd:token
	publishdate		200	Always	The date this package was published.	String representation of a date and time. For example: Aug 19 2015 3:43PM	xsd:dateTime
	version		20	Always	The version of this test specification	Decimal	xsd:decimal
identifier		testspecification:identifier					
	uniqueid		250	Always	Uniquely identifies the test	One or more printable ASCII characters	xsd:token
	name		200	Always	More readable test name	One or more printable ASCII characters	xsd:token
	label		200	Always	Displayed test name	One or more printable ASCII characters	xsd:token
	version		10	Always	Test version	Integer	xsd:integer
property		testspecification:property			Multiple test properties		

Category / Node (XML Element)	Field Name (attribute)	XML Hierarchy	Width (chars)	Required	Data Element Description	Acceptable Values	Data Type
	name		200	Always	Defines a property for this test. This is where the grade, subject and test type are defined.	One or more printable ASCII characters Required properties include: grade, subject, type	xsd:token
	value		200	Always	The value for this property	The subject property can be ELA, MATH or Student Help. The type property can be iterim or summative.	xsd:token
	label		200	Always	The display label for this property	One or more printable ASCII characters	xsd:token
administration		testspecification:administration		Always			
testblueprint		testspecification:administration:testblueprint		Always			
bplement		testspecification:administration:testblueprint:bplement		Always			
	elementtype		100	Always	The type of blueprint element	test, segment, strand, contentlevel	xsd:token
	parentid		150	Optional	Defines this blueprint element as a child of a parent element. References testspecification:administration:testblueprint:bplement:identifier[@uniqueid]	One or more printable ASCII characters	xsd:token
	minopitems		4	Always	Minimum number of operational items the adaptive algorithm will include.	0 <= Integer <= maxopitems NOTE: All child element values must work with the parent values. Meaning if the child elements each have a minimum value of 2, then the parent element must have a maximum value >= 4 in order to satisfy all conditions.	xsd:integer

Category / Node (XML Element)	Field Name (attribute)	XML Hierarchy	Width (chars)	Required	Data Element Description	Acceptable Values	Data Type
	maxopitems		4	Always	Maximum number of operational items the adaptive algorihm will include.	1 <= Integer >= minopitems NOTE: All child element values must work with the parent values. Meaning if the child elements each have a minimum value of 2, then the parent element must have a maximum value >= 4 in order to satisfy all conditions.	xsd:ineger
	minftitems		4	Optional	Minimum number of field test items the adaptive algorithm will include. Defaults to 0 if not provided.	0 <= Integer <= maxftitems NOTE: All child element values must work with the parent values. Meaning if the child elements each have a minimum value of 2, then the parent element must have a maximum value >= 4 in order to satisfy all conditions.	xsd:integer
	maxftitems		4	Optional	Maximum number of field test items the adaptive algorithm will include. Defaults to 0 if not provided.	0 <= Integer >= minftitems NOTE: All child element values must work with the parent values. Meaning if the child elements each have a minimum value of 2, then the parent element must have a maximum value >= 4 in order to satisfy all conditions.	xsd:integer
	opitemcount		4	Always	The number of operational items that belong to this group (strand or content level).	Integer > 0	xsd:integer
	ftitemcount		4	Always	The number of filed test items that belong to this group (strand or content level).	Integer > 0	xsd:integer
identifier		testspecification:administration:testblueprint:bplement:identifier		Always			
	uniqueid		150	Always	Uniquely identifies the blueprint element	One or more printable ASCII characters	xsd:token
	name		255	Always	Name of the blueprint element	One or more printable ASCII characters	xsd:token
	version		10	Always	Version of the blueprint element	Integer	xsd:integer

Category / Node (XML Element)	Field Name (attribute)	XML Hierarchy	Width (chars)	Required	Data Element Description	Accepable Values	Data Type
poolproperty		testspecification:administration: poolpoperty			Defines properties for the item pool such as type of items (--ITEMTYPE--) and Language		
	property		50	Always	Name of the property	One or more printable ASCII characters Common values include --ITEMTYPE-- and Language	xsd:token
	value		128	Always	Property value	One or more printable ASCII characters Language would include the language code such as ENU, while item type includes the ietm type code such as EQ, GI, MC, MI, etc.	xsd:token
	label		150	Always	Pool property label	One or more printable ASCII characters	xsd:token
	itemcount		10	Always	The number of items in the pool that match this criteria	Integer >= 0	xsd:integer
itempool		testspecification:administration:i tempool		Always			
passage		testspecification:administration:i tempool:passage		Optional			
	filename		50	Always	References an XML file in the stimulus directory	One or more printable ASCII characters	xsd:token
identifier		testspecification:administration:i tempool:passage:identifier		Required: when parent passage element is included			

Category / Node (XML Element)	Field Name (attribute)	XML Hierarchy	Width (chars)	Required	Data Element Description	Acceptable Values	Data Type
	uniqueid		100	Always	Uniquely identifies the passage	One or more printable ASCII characters	xsd:token
	name		100	Optional	Passage name	One or more printable ASCII characters	xsd:token
	version		10	Always	Version	Integer	xsd:integer
testitem		testspecification:administration:itempool:testitem		Always			
	filename		200	Always	References an XML file in the items directory. The path is determined by the identifier uniqueid and the filename	One or more printable ASCII characters	xsd:token
	itemtype		50	Always	The item type code	ESBR, ER, EQ, GI, HTQ, MI, MS, NL, SA, TI, WER	xsd:token
identifier		testspecification:administration:itempool:testitem:identifier		Always			
	uniqueid		150	Always	Uniquely identifies the test item	One or more printable ASCII characters Examples include 187-1576, 187-1578, etc.	xsd:token
	name		80	Optional	Name of the test item	One or more printable ASCII characters	xsd:token
	version		10	Always	Test item version	Integer	xsd:integer
bpref		testspecification:administration:itempool:testitem:bpref	150	Always	Blueprint reference. Refers to testspecification:administration:testblueprint:bpelement:identifier[@uniqueid]	One or more printable ASCII characters	xsd:token

Category / Node (XML Element)	Field Name (attribute)	XML Hierarchy	Width (chars)	Required	Data Element Description	Acceptable Values	Data Type
passageref		testspecification:administration:itempool:testitem:passageref	100	Optional	Passage reference. Refers to testspecification:administration:itempool:passage:identifier[@uniqueid]	One or more printable ASCII characters	xsd:token
poolproperty		testspecification:administration:itempool:testitem:poolproperty			Pool property reference.		
	property		50	Always	Refers to testspecification:administration:poolproperty[@property]	One or more printable ASCII characters	xsd:token
	value		128	Always	Refers to testspecification:administration:poolproperty[@value]	One or more printable ASCII characters	xsd:token
	label		150	Always	Refers to testspecification:administration:poolproperty[@label]	One or more printable ASCII characters	xsd:token
itemscoredimension		testspecification:administration:itempool:testitem:itemscoredimension		Always	Scoring information for this particular item		
	measurementmodel		100	Always	The type of measurement model to use.	IRT3PLn, IRT3pl, IRTPCL, IRTGPC	xsd:token
	scorepoints		10	Always	Scoring points for this scoring dimension	Integer >= 0	xsd:integer
	weight		30	Always	Weight applied for this scoring dimension	Float	xsd:float

Category / Node (XML Element)	Field Name (attribute)	XML Hierarchy	Width (chars)	Required	Data Element Description	Acceptable Values	Data Type
	dimension		200	Optional		One or more printable ASCII characters	xsd:token
itemscoreparameter		testspecification:administration:itempool:testitem:itemscoredimension:itemscoreparameter		Always			
	measurementparameter		50	Always	Defines which parameter this value will be used for.	a, b, c, b0, b1	xsd:token
	value		30	Always	Paramter value used in the scoring model	Float	xsd:float
testform		testspecification:administration:testform		Required when fixedform			
	length		10	Always	Number of items in this test form	Integer >= 1	xsd:integer
identifier		testspecification:administration:testform:identifier					
	uniqueid		200	Always	Uniquely identifies the test form	One or more printable ASCII characters	xsd:token
	name		200	Always	Name of the test form	One or more printable ASCII characters	xsd:token
	version		10	Always	Version of the test form	Integer	xsd:integer
property		testspecification:administration:testform:property		Optional	Multiple test form related properties		
	name		200	Always	Test form property name	One or more printable ASCII characters	xsd:token
	value		200	Always	Value for the test form property	One or more printable ASCII characters	xsd:token
	label		200	Always	Display label for this type of property	One or more printable ASCII characters	xsd:token
poolproperty		testspecification:administration:testform:poolproperty		Optional	Multiple test form related pool properties		

Category / Node (XML Element)	Field Name (attribute)	XML Hierarchy	Width (chars)	Required	Data Element Description	Accepable Values	Data Type
	property		200	Always	Refers to testspecification:administration:pool property[@property]	One or more printable ASCII characters	xsd:token
	value		200	Always	Refers to testspecification:administration:pool property[@value]	One or more printable ASCII characters	xsd:token
	label		200	Always	Refers to testspecification:administration:pool property[@label]	One or more printable ASCII characters	xsd:token
	itemcount		10	Always	Number of items matching this property type	Integer >= 0	xsd:integer
formpartition		testspecification:administration:testform:formpartition			Each testform has at least one formpartition, one of r each fixed format segment.		
identifier		testspecification:administration:testform:formpartition:identifier					
	uniqueid		100	Always	Form partition identifier	One or more printable ASCII characters	xsd:token
	name		200	Always	Name of the form partition	One or more printable ASCII characters	xsd:token
	version		10	Always	Version of the form partition	Integer	xsd:integer
itemgroup		testspecification:administration:testform:formpartition:itemgroup					

Category / Node (XML Element)	Field Name (attribute)	XML Hierarchy	Width (chars)	Required	Data Element Description	Accepable Values	Data Type
	formposition		10	Always	Used for ordering the item group within this form partition	Integer >= 1	xsd:integer
	maxitems		10	Always	Maximum number of items in this form partition	Integer >= 1 or "ALL"	xsd:token
	maxresponses		10	Always	Maximum responses for this form partition	Integer >= 1 or "ALL"	xsd:token
identifier		testspecification:administration:testform:formpartition:itemgroup:identifier					
	uniqueid		200	Always	Uniquely identifies this form partition	One or more printable ASCII characters	xsd:token
	name		200	Always	Name of this form partition	One or more printable ASCII characters	xsd:token
	version		10	Always	Version of this form partition	Integer	xsd:integer
passageref		testspecification:administration:testform:formpartition:itemgroup:passageref	100	Optional	Passage reference. Refers to testspecification:administration:itempool:passage:identifier[@uniqueid]	One or more printable ASCII characters	xsd:token
groupitem		testspecification:administration:testform:formpartition:itemgroup:groupitem					
	itemid		150	Always	Item reference. Refers to testspecification:administration:itempool:testitem:identifier[@uniqueid]	One or more printable ASCII characters	xsd:token
	formposition		10	Optional	The order of this item within the form partition.	Integer >= 1	xsd:integer
	groupposition		10	Always	The order of this item within the item group.	Integer >= 1	xsd:integer
	adminrequired		5	Always		true, false	xsd:boolean

Category / Node (XML Element)	Field Name (attribute)	XML Hierarchy	Width (chars)	Required	Data Element Description	Accepable Values	Data Type
	responserequired		5	Always	Determines if the item is required	true, false	xsd:boolean
	isactive		5	Always	Determines if the item is used	true, false	xsd:boolean
	isfieldtest		5	Always	Determines if the item is considered a field test item	true, false	xsd:boolean
	blockid		10	Always	Used to group items into blocks for the field test selection algorithm. Note that the Test Authoring assigns "A" for all items.	One or more printable ASCII characters A, B, etc.	xsd:token
adminsegment		testspecification:administration: adminsegment					
	segmentid		250	Always	Refers to testspecification:administration:testblueprint:bpelement[@elementtype=" segment"]:identifier[@uniqueid]	One or more printable ASCII characters	xsd:token
	position		10	Always		Integer >= 1	xsd:integer
	itemselection		100	Always	Sets to fixed form or adaptive test segment	fixedform, adaptive2, adaptive	xsd:token
segmentblueprint		testspecification:administration: adminsegment:segmentblueprint					

Category / Node (XML Element)	Field Name (attribute)	XML Hierarchy	Width (chars)	Required	Data Element Description	Accepable Values	Data Type
segmentbpelement		testspecification:administration: adminsegment:segmentblueprint:segmentbpelement					
	bpelementid		150	Always	Blueprint reference. Refers to testspecification:administration:testblueprint:bpelement:identifier[@uniqueid]	One or more printable ASCII characters	xsd:token
	minopitems		10	Always		0 <= Integer <= maxopitems	xsd:integer
	maxopitems		10	Always		Integer >= minopitems	xsd:integer
itemselector		testspecification:administration: adminsegment:itemselector					
	type		100	Always	Segment item selection algorithm	fixedform, adaptive, adaptive2	xsd:token
identifier		testspecification:administration: adminsegment:itemselector:identifier					
	uniqueid		200	Always	Uniquely identifies the item selector	One or more printable ASCII characters	xsd:token
	name		200	Always	Name of the item selector	One or more printable ASCII characters	xsd:token
	label		200	Always	Display label of the item selector	One or more printable ASCII characters	xsd:token
	version		20	Always	Version of the item selector	Float	xsd:float
itemselectionparameter		testspecification:administration: adminsegment:itemselector:itemselectionparameter					

Category / Node (XML Element)	Field Name (attribute)	XML Hierarchy	Width (chars)	Required	Data Element Description	Accepable Values	Data Type
	bpelementid		150	Always		One or more printable ASCII characters Matches testspecification:administration:testblueprint:bpelement:identifier[@uniqueid]	xsd:token
property		testspecification:administration: adminsegment:itemselector:itemselectionparameter:property					
	name		200	Always	Property code name	Fixed form values include: slope, intercept. Adaptive values include: isstrictmax, bpweight, adaptivecut, startability, startinfo, scalar, …	xsd:token
	value		100	Always	Value of the property	One or more printable ASCII characters	xsd:token
	label		500	Always	Descriptive text for this property	One or more printable ASCII characters	xsd:token
segmentform		testspecification:administration: adminsegment:segmentform		Required when fixedform			
	formpartitionid		100	Always	Form partition identifier	One or more printable ASCII characters Matches testspecification:administration:testform:formpartition:identifier[@uniqueid]	xsd:token
segmentpool		testspecification:administration: adminsegment:segmentpool		Required when adaptive			

Category / Node (XML Element)	Field Name (attribute)	XML Hierarchy	Width (chars)	Required	Data Element Description	Accepable Values	Data Type
itemgroup		testspecification:administration: adminsegment:segmentpool:ite mgroup					
	maxitems		10	Always	Maximum number of items for this item group	Integer >= 1 or "ALL"	xsd:token
	maxresponses		10	Always	Maximum responses for this ietm group	Integer >= 1 or "ALL"	xsd:token
identifier		testspecification:administration: adminsegment:segmentpool:ite mgroup:identifier					
	uniqueid		200	Always	Uniquely identifies this segment pool item group	One or more printable ASCII characters	xsd:token
	name		200	Always	Name of this item group	One or more printable ASCII characters	xsd:token
	version		10	Always	Version of this item group	Integer	xsd:integer
groupitem		testspecification:administration: adminsegment:segmentpool:ite mgroup:groupitem					
	itemid		150	Always	Item reference. Refers to testspecification:administration:item pool:testitem:identifier[@uniqueid]	One or more printable ASCII characters	xsd:token
	groupposition		10	Always		Integer >= 1	xsd:integer
	adminrequired		5	Always		true, false	xsd:boolean
	responserequir ed		5	Always	Determines if the item is required	true, false	xsd:boolean
	isactive		5	Always	Determines if the item is used	true, false	xsd:boolean

Category / Node (XML Element)	Field Name (attribute)	XML Hierarchy	Width (chars)	Required	Data Element Description	Acceptable Values	Data Type
	isfieldtest		5	Always	Determines if the item is considered a field test item	true, false	xsd:boolean
	blockid		10	Always	Used to group items into blocks for the field test selection algorithm. Note that the Test Authoring assigns "A" for all items.	One or more printable ASCII characters A, B, etc.	xsd:token

Sample XML Output

Multiple examples can be found in th Implementation Readiness Package (IRP) found here: ftp://ftps.smarterbalanced.org/~sbacpublic/Public/ImplementationReadiness/2016.02.24.IrpTestPackageAndContent.zip The administration packages are located in the */Test Packages/TDS/Administration* and the */Test Packages/TIS/Administration* directories.

Fixed Form Sample XML Output

Below is the Math 3 Performance Test Administration Package from the IRP which is an example of a fixed form test package:

```
<testspecification purpose="administration" publisher="SBAC_PT" publishdate="Aug 19 2015  3:44PM" version="1.0">
  <identifier uniqueid="(SBAC_PT)SBAC-IRP-Perf-MATH-3-Summer-2015-2016" name="SBAC-IRP-Perf-MATH-3" label="Grade 3 MATH" version="8185" />
  <property name="subject" value="MATH" label="MATH" />
  <property name="grade" value="3" label="grade 3" />
  <property name="type" value="summative" label="summative" />
  <administration>
    <testblueprint>
      <bpelement elementtype="test" minopitems="4" maxopitems="4" minftitems="0" maxftitems="0" opitemcount="4" ftitemcount="0">
        <identifier uniqueid="(SBAC_PT)SBAC-IRP-Perf-MATH-3-Summer-2015-2016" name="SBAC-IRP-Perf-MATH-3" version="8185" />
      </bpelement>
      <bpelement elementtype="segment" minopitems="4" maxopitems="4" minftitems="0" maxftitems="0" opitemcount="4" ftitemcount="0">
        <identifier uniqueid="(SBAC_PT)SBAC-IRP-Perf-MATH-3-Summer-2015-2016" name="SBAC-IRP-Perf-MATH-3" version="8185" />
      </bpelement>
```

```xml
        <bpelement elementtype="strand" minopitems="0" maxopitems="3" opitemcount="2" ftitemcount="0">
          <identifier uniqueid="SBAC_PT-2" name="2" version="8185" />
        </bpelement>
        <bpelement elementtype="contentlevel" parentid="SBAC_PT-2" minopitems="0" maxopitems="3" opitemcount="2" ftitemcount="0">
          <identifier uniqueid="SBAC_PT-2|MD" name="2|MD" version="8185" />
        </bpelement>
        <bpelement elementtype="contentlevel" parentid="SBAC_PT-2|MD" minopitems="0" maxopitems="3" opitemcount="2" ftitemcount="0">
          <identifier uniqueid="SBAC_PT-2|MD|A" name="2|MD|A" version="8185" />
        </bpelement>
        <bpelement elementtype="strand" minopitems="0" maxopitems="3" opitemcount="1" ftitemcount="0">
          <identifier uniqueid="SBAC_PT-3" name="3" version="8185" />
        </bpelement>
        <bpelement elementtype="contentlevel" parentid="SBAC_PT-3" minopitems="0" maxopitems="3" opitemcount="1" ftitemcount="0">
          <identifier uniqueid="SBAC_PT-3|MD" name="3|MD" version="8185" />
        </bpelement>
        <bpelement elementtype="contentlevel" parentid="SBAC_PT-3|MD" minopitems="0" maxopitems="3" opitemcount="1" ftitemcount="0">
          <identifier uniqueid="SBAC_PT-3|MD|A" name="3|MD|A" version="8185" />
        </bpelement>
        <bpelement elementtype="strand" minopitems="0" maxopitems="3" opitemcount="1" ftitemcount="0">
          <identifier uniqueid="SBAC_PT-4" name="4" version="8185" />
        </bpelement>
        <bpelement elementtype="contentlevel" parentid="SBAC_PT-4" minopitems="0" maxopitems="3" opitemcount="1" ftitemcount="0">
          <identifier uniqueid="SBAC_PT-4|MD" name="4|MD" version="8185" />
        </bpelement>
        <bpelement elementtype="contentlevel" parentid="SBAC_PT-4|MD" minopitems="0" maxopitems="3" opitemcount="1" ftitemcount="0">
          <identifier uniqueid="SBAC_PT-4|MD|A" name="4|MD|A" version="8185" />
        </bpelement>
    </testblueprint>
    <poolproperty property="--ITEMTYPE--" value="EQ" label="EQ" itemcount="1" />
    <poolproperty property="--ITEMTYPE--" value="GI" label="GI" itemcount="1" />
    <poolproperty property="--ITEMTYPE--" value="TI" label="TI" itemcount="2" />
    <poolproperty property="Language" value="ENU" label="English" itemcount="4" />
    <itempool>
      <passage filename="stim-187-3700.xml">
        <identifier uniqueid="187-3700" version="8185" />
      </passage>
      <testitem filename="item-187-2788.xml" itemtype="TI">
        <identifier uniqueid="187-2788" version="8185" />
        <bpref>(SBAC_PT)SBAC-IRP-Perf-MATH-3-Summer-2015-2016</bpref>
        <bpref>SBAC_PT-2</bpref>
        <bpref>SBAC_PT-2|MD</bpref>
        <bpref>SBAC_PT-2|MD|A</bpref>
        <passageref>187-3700</passageref>
        <poolproperty property="--ITEMTYPE--" value="TI" label="TI" />
        <poolproperty property="Language" value="ENU" label="English" />
        <itemscoredimension measurementmodel="IRT3PLn" scorepoints="1" weight="1.000000000000000e+000">
```

```xml
        <itemscoreparameter measurementparameter="a" value="1.025780000000000e+000" />
        <itemscoreparameter measurementparameter="b" value="-1.836230000000000e+000" />
        <itemscoreparameter measurementparameter="c" value="0.000000000000000e+000" />
      </itemscoredimension>
    </testitem>
    <testitem filename="item-187-2789.xml" itemtype="TI">
      <identifier uniqueid="187-2789" version="8185" />
      <bpref>(SBAC_PT)SBAC-IRP-Perf-MATH-3-Summer-2015-2016</bpref>
      <bpref>SBAC_PT-3</bpref>
      <bpref>SBAC_PT-3|MD</bpref>
      <bpref>SBAC_PT-3|MD|A</bpref>
      <passageref>187-3700</passageref>
      <poolproperty property="--ITEMTYPE--" value="TI" label="TI" />
      <poolproperty property="Language" value="ENU" label="English" />
      <itemscoredimension measurementmodel="IRT3PLn" scorepoints="1" weight="1.000000000000000e+000">
        <itemscoreparameter measurementparameter="a" value="4.239400000000000e-001" />
        <itemscoreparameter measurementparameter="b" value="1.070860000000000e+000" />
        <itemscoreparameter measurementparameter="c" value="0.000000000000000e+000" />
      </itemscoredimension>
    </testitem>
  </itempool>
  <testform length="2">
    <identifier uniqueid="(SBAC_PT)SBAC-IRP-Perf-MATH-3-Summer-2015-2016:Default-ENU" name="(SBAC_PT)SBAC-IRP-Perf-MATH-3-Summer-2015-2016:Default-ENU"
version="8185" />
    <property name="language" value="ENU" label="English" />
    <poolproperty property="--ITEMTYPE--" value="EQ" label="EQ" itemcount="1" />
    <poolproperty property="--ITEMTYPE--" value="GI" label="GI" itemcount="1" />
    <poolproperty property="--ITEMTYPE--" value="TI" label="TI" itemcount="2" />
    <poolproperty property="Language" value="ENU" label="English" itemcount="4" />
    <formpartition>
      <identifier uniqueid="187-764" name="IRP::MathG3::Perf::SP15" version="8185" />
      <itemgroup formposition="1" maxitems="ALL" maxresponses="ALL">
        <identifier uniqueid="187-764:G-187-3700-0" name="187-764:G-187-3700-0" version="8185" />
        <passageref>187-3700</passageref>
        <groupitem itemid="187-2788" formposition="1" groupposition="1" adminrequired="false" responserequired="false" isactive="true" isfieldtest="false"
blockid="A" />
        <groupitem itemid="187-2789" formposition="2" groupposition="2" adminrequired="false" responserequired="false" isactive="true" isfieldtest="false"
blockid="A" />
      </itemgroup>
    </formpartition>
  </testform>
  <adminsegment segmentid="(SBAC_PT)SBAC-IRP-Perf-MATH-3-Summer-2015-2016" position="1" itemselection="fixedform">
    <segmentblueprint>
      <segmentbpelement bpelementid="SBAC_PT-2" minopitems="0" maxopitems="3" />
      <segmentbpelement bpelementid="SBAC_PT-3" minopitems="0" maxopitems="3" />
      <segmentbpelement bpelementid="SBAC_PT-4" minopitems="0" maxopitems="3" />
```

```xml
            <segmentbpelement bpelementid="SBAC_PT-2|MD" minopitems="0" maxopitems="3" />
            <segmentbpelement bpelementid="SBAC_PT-3|MD" minopitems="0" maxopitems="3" />
            <segmentbpelement bpelementid="SBAC_PT-4|MD" minopitems="0" maxopitems="3" />
            <segmentbpelement bpelementid="SBAC_PT-2|MD|A" minopitems="0" maxopitems="3" />
            <segmentbpelement bpelementid="SBAC_PT-3|MD|A" minopitems="0" maxopitems="3" />
            <segmentbpelement bpelementid="SBAC_PT-4|MD|A" minopitems="0" maxopitems="3" />
        </segmentblueprint>
        <itemselector type="fixedform">
            <identifier uniqueid="AIR FIXEDFORM1" name="AIR FIXEDFORM" label="AIR FIXEDFORM" version="1.0" />
            <itemselectionparameter bpelementid="(SBAC_PT)SBAC-IRP-Perf-MATH-3-Summer-2015-2016">
              <property name="slope" value="79.3" label="slope" />
              <property name="intercept" value="2514.9" label="intercept" />
            </itemselectionparameter>
        </itemselector>
        <segmentform formpartitionid="187-764" />
      </adminsegment>
  </administration>
</testspecification>
```

Adaptive Sample XML Output

Below is the Math 3 CAT Test Administration Package from the IRP which is an example of an adaptive test package:

```xml
<testspecification purpose="administration" publisher="SBAC_PT" publishdate="Aug 19 2015  3:44PM" version="1.0">
  <identifier uniqueid="(SBAC_PT)SBAC-IRP-CAT-MATH-3-Summer-2015-2016" name="SBAC-IRP-CAT-MATH-3" label="Grade 3 MATH" version="8185" />
  <property name="subject" value="MATH" label="MATH" />
  <property name="grade" value="3" label="grade 3" />
  <property name="type" value="summative" label="summative" />
  <administration>
    <testblueprint>
      <bpelement elementtype="test" minopitems="8" maxopitems="8" minftitems="0" maxftitems="0" opitemcount="17" ftitemcount="0">
        <identifier uniqueid="(SBAC_PT)SBAC-IRP-CAT-MATH-3-Summer-2015-2016" name="SBAC-IRP-CAT-MATH-3" version="8185" />
      </bpelement>
      <bpelement elementtype="segment" minopitems="8" maxopitems="8" minftitems="0" maxftitems="0" opitemcount="17" ftitemcount="0">
        <identifier uniqueid="(SBAC_PT)SBAC-IRP-CAT-MATH-3-Summer-2015-2016" name="SBAC-IRP-CAT-MATH-3" version="8185" />
      </bpelement>
      <bpelement elementtype="affinitygroup" minopitems="2" maxopitems="2" opitemcount="2" ftitemcount="0">
        <identifier uniqueid="G3Math_Claim1_MC/MS" name="G3Math_Claim1_MC/MS" version="8185" />
      </bpelement>
      <bpelement elementtype="affinitygroup" minopitems="2" maxopitems="2" opitemcount="4" ftitemcount="0">
        <identifier uniqueid="G3Math_Claim2/4" name="G3Math_Claim2/4" version="8185" />
      </bpelement>
      <bpelement elementtype="affinitygroup" minopitems="2" maxopitems="8" opitemcount="9" ftitemcount="0">
        <identifier uniqueid="G3Math_DOK2" name="G3Math_DOK2" version="8185" />
```

```
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  <identifier uniqueid="SBAC_PT-1|MD" name="1|MD" version="8185" />
</bpelement>
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  <identifier uniqueid="SBAC_PT-1|MD|G-3" name="1|MD|G-3" version="8185" />
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<bpelement elementtype="contentlevel" parentid="SBAC_PT-1|MD|G-3" minopitems="0" maxopitems="1" opitemcount="1" ftitemcount="0">
  <identifier uniqueid="SBAC_PT-1|MD|G-3|m" name="1|MD|G-3|m" version="8185" />
</bpelement>
<bpelement elementtype="contentlevel" parentid="SBAC_PT-1|MD|G-3|m" minopitems="0" maxopitems="1" opitemcount="1" ftitemcount="0">
  <identifier uniqueid="SBAC_PT-1|MD|G-3|m|3.MD.2" name="1|MD|G-3|m|3.MD.2" version="8185" />
</bpelement>
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  <identifier uniqueid="SBAC_PT-1|MD|H-3" name="1|MD|H-3" version="8185" />
</bpelement>
<bpelement elementtype="contentlevel" parentid="SBAC_PT-1|MD|H-3" minopitems="0" maxopitems="1" opitemcount="1" ftitemcount="0">
  <identifier uniqueid="SBAC_PT-1|MD|H-3|a/s" name="1|MD|H-3|a/s" version="8185" />
</bpelement>
<bpelement elementtype="contentlevel" parentid="SBAC_PT-1|MD|H-3|a/s" minopitems="0" maxopitems="1" opitemcount="1" ftitemcount="0">
  <identifier uniqueid="SBAC_PT-1|MD|H-3|a/s|3.MD.3" name="1|MD|H-3|a/s|3.MD.3" version="8185" />
</bpelement>
<bpelement elementtype="contentlevel" parentid="SBAC_PT-1|MD" minopitems="0" maxopitems="1" opitemcount="1" ftitemcount="0">
  <identifier uniqueid="SBAC_PT-1|MD|I-3" name="1|MD|I-3" version="8185" />
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<bpelement elementtype="contentlevel" parentid="SBAC_PT-1|MD|I-3" minopitems="0" maxopitems="1" opitemcount="1" ftitemcount="0">
  <identifier uniqueid="SBAC_PT-1|MD|I-3|m" name="1|MD|I-3|m" version="8185" />
</bpelement>
<bpelement elementtype="contentlevel" parentid="SBAC_PT-1|MD|I-3|m" minopitems="0" maxopitems="1" opitemcount="1" ftitemcount="0">
  <identifier uniqueid="SBAC_PT-1|MD|I-3|m|3.MD.7d" name="1|MD|I-3|m|3.MD.7d" version="8185" />
</bpelement>
<bpelement elementtype="contentlevel" parentid="SBAC_PT-1|MD" minopitems="0" maxopitems="1" opitemcount="1" ftitemcount="0">
  <identifier uniqueid="SBAC_PT-1|MD|J-3" name="1|MD|J-3" version="8185" />
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<bpelement elementtype="contentlevel" parentid="SBAC_PT-1|MD|J-3" minopitems="0" maxopitems="1" opitemcount="1" ftitemcount="0">
  <identifier uniqueid="SBAC_PT-1|MD|J-3|a/s" name="1|MD|J-3|a/s" version="8185" />
</bpelement>
<bpelement elementtype="contentlevel" parentid="SBAC_PT-1|MD|J-3|a/s" minopitems="0" maxopitems="1" opitemcount="1" ftitemcount="0">
  <identifier uniqueid="SBAC_PT-1|MD|J-3|a/s|3.MD.8" name="1|MD|J-3|a/s|3.MD.8" version="8185" />
</bpelement>
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  <identifier uniqueid="SBAC_PT-1|NBT" name="1|NBT" version="8185" />
</bpelement>
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```xml
<bpelement elementtype="contentlevel" parentid="SBAC_PT-1|NBT" minopitems="0" maxopitems="1" opitemcount="1" ftitemcount="0">
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</bpelement>
<bpelement elementtype="contentlevel" parentid="SBAC_PT-1|NBT|E-3" minopitems="0" maxopitems="1" opitemcount="1" ftitemcount="0">
  <identifier uniqueid="SBAC_PT-1|NBT|E-3|a/s" name="1|NBT|E-3|a/s" version="8185" />
</bpelement>
<bpelement elementtype="contentlevel" parentid="SBAC_PT-1|NBT|E-3|a/s" minopitems="0" maxopitems="1" opitemcount="1" ftitemcount="0">
  <identifier uniqueid="SBAC_PT-1|NBT|E-3|a/s|3.NBT.2" name="1|NBT|E-3|a/s|3.NBT.2" version="8185" />
</bpelement>
<bpelement elementtype="contentlevel" parentid="SBAC_PT-1" minopitems="0" maxopitems="1" opitemcount="2" ftitemcount="0">
  <identifier uniqueid="SBAC_PT-1|NF" name="1|NF" version="8185" />
</bpelement>
<bpelement elementtype="contentlevel" parentid="SBAC_PT-1|NF" minopitems="0" maxopitems="1" opitemcount="2" ftitemcount="0">
  <identifier uniqueid="SBAC_PT-1|NF|F-3" name="1|NF|F-3" version="8185" />
</bpelement>
<bpelement elementtype="contentlevel" parentid="SBAC_PT-1|NF|F-3" minopitems="0" maxopitems="1" opitemcount="2" ftitemcount="0">
  <identifier uniqueid="SBAC_PT-1|NF|F-3|m" name="1|NF|F-3|m" version="8185" />
</bpelement>
<bpelement elementtype="contentlevel" parentid="SBAC_PT-1|NF|F-3|m" minopitems="0" maxopitems="1" opitemcount="1" ftitemcount="0">
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</bpelement>
<bpelement elementtype="contentlevel" parentid="SBAC_PT-1|NF|F-3|m" minopitems="0" maxopitems="1" opitemcount="1" ftitemcount="0">
  <identifier uniqueid="SBAC_PT-1|NF|F-3|m|3.NF.3c" name="1|NF|F-3|m|3.NF.3c" version="8185" />
</bpelement>
<bpelement elementtype="contentlevel" parentid="SBAC_PT-1" minopitems="0" maxopitems="4" opitemcount="2" ftitemcount="0">
  <identifier uniqueid="SBAC_PT-1|OA" name="1|OA" version="8185" />
</bpelement>
<bpelement elementtype="contentlevel" parentid="SBAC_PT-1|OA" minopitems="0" maxopitems="1" opitemcount="1" ftitemcount="0">
  <identifier uniqueid="SBAC_PT-1|OA|A-3" name="1|OA|A-3" version="8185" />
</bpelement>
<bpelement elementtype="contentlevel" parentid="SBAC_PT-1|OA|A-3" minopitems="0" maxopitems="1" opitemcount="1" ftitemcount="0">
  <identifier uniqueid="SBAC_PT-1|OA|A-3|m" name="1|OA|A-3|m" version="8185" />
</bpelement>
<bpelement elementtype="contentlevel" parentid="SBAC_PT-1|OA|A-3|m" minopitems="0" maxopitems="1" opitemcount="1" ftitemcount="0">
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</bpelement>
<bpelement elementtype="contentlevel" parentid="SBAC_PT-1|OA" minopitems="0" maxopitems="1" opitemcount="1" ftitemcount="0">
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```xml
    <identifier uniqueid="SBAC_PT-2" name="2" version="8185" />
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    <identifier uniqueid="SBAC_PT-2|MD" name="2|MD" version="8185" />
  </bpelement>
  <bpelement elementtype="contentlevel" parentid="SBAC_PT-2|MD" minopitems="0" maxopitems="1" opitemcount="1" ftitemcount="0">
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  </bpelement>
  <bpelement elementtype="contentlevel" parentid="SBAC_PT-2|MD|B" minopitems="0" maxopitems="1" opitemcount="1" ftitemcount="0">
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  </bpelement>
  <bpelement elementtype="contentlevel" parentid="SBAC_PT-2|MD|B|NA" minopitems="0" maxopitems="1" opitemcount="1" ftitemcount="0">
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  </bpelement>
  <bpelement elementtype="strand" minopitems="2" maxopitems="2" opitemcount="4" ftitemcount="0">
    <identifier uniqueid="SBAC_PT-3" name="3" version="8185" />
  </bpelement>
  <bpelement elementtype="contentlevel" parentid="SBAC_PT-3" minopitems="0" maxopitems="0" opitemcount="1" ftitemcount="0">
    <identifier uniqueid="SBAC_PT-3|G" name="3|G" version="8185" />
  </bpelement>
  <bpelement elementtype="contentlevel" parentid="SBAC_PT-3|G" minopitems="0" maxopitems="0" opitemcount="1" ftitemcount="0">
    <identifier uniqueid="SBAC_PT-3|G|F" name="3|G|F" version="8185" />
  </bpelement>
  <bpelement elementtype="contentlevel" parentid="SBAC_PT-3|G|F" minopitems="0" maxopitems="0" opitemcount="1" ftitemcount="0">
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  </bpelement>
  <bpelement elementtype="contentlevel" parentid="SBAC_PT-3|G|F|NA" minopitems="0" maxopitems="0" opitemcount="1" ftitemcount="0">
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  </bpelement>
  <bpelement elementtype="contentlevel" parentid="SBAC_PT-3" minopitems="0" maxopitems="1" opitemcount="1" ftitemcount="0">
    <identifier uniqueid="SBAC_PT-3|MD" name="3|MD" version="8185" />
  </bpelement>
  <bpelement elementtype="contentlevel" parentid="SBAC_PT-3|MD" minopitems="0" maxopitems="1" opitemcount="1" ftitemcount="0">
    <identifier uniqueid="SBAC_PT-3|MD|C" name="3|MD|C" version="8185" />
  </bpelement>
  <bpelement elementtype="contentlevel" parentid="SBAC_PT-3|MD|C" minopitems="0" maxopitems="1" opitemcount="1" ftitemcount="0">
    <identifier uniqueid="SBAC_PT-3|MD|C|NA" name="3|MD|C|NA" version="8185" />
  </bpelement>
  <bpelement elementtype="contentlevel" parentid="SBAC_PT-3|MD|C|NA" minopitems="0" maxopitems="1" opitemcount="1" ftitemcount="0">
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  <bpelement elementtype="contentlevel" parentid="SBAC_PT-3" minopitems="0" maxopitems="1" opitemcount="1" ftitemcount="0">
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  </bpelement>
  <bpelement elementtype="contentlevel" parentid="SBAC_PT-3|NF" minopitems="0" maxopitems="1" opitemcount="1" ftitemcount="0">
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```
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    <bpelement elementtype="contentlevel" parentid="SBAC_PT-3|NF|A|NA" minopitems="0" maxopitems="1" opitemcount="1" ftitemcount="0">
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    </bpelement>
    <bpelement elementtype="contentlevel" parentid="SBAC_PT-3" minopitems="0" maxopitems="1" opitemcount="1" ftitemcount="0">
      <identifier uniqueid="SBAC_PT-3|OA" name="3|OA" version="8185" />
    </bpelement>
    <bpelement elementtype="contentlevel" parentid="SBAC_PT-3|OA" minopitems="0" maxopitems="1" opitemcount="1" ftitemcount="0">
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    </bpelement>
    <bpelement elementtype="contentlevel" parentid="SBAC_PT-3|OA|D" minopitems="0" maxopitems="1" opitemcount="1" ftitemcount="0">
      <identifier uniqueid="SBAC_PT-3|OA|D|NA" name="3|OA|D|NA" version="8185" />
    </bpelement>
    <bpelement elementtype="contentlevel" parentid="SBAC_PT-3|OA|D|NA" minopitems="0" maxopitems="1" opitemcount="1" ftitemcount="0">
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    <bpelement elementtype="strand" minopitems="0" maxopitems="2" opitemcount="3" ftitemcount="0">
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    </bpelement>
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    <bpelement elementtype="contentlevel" parentid="SBAC_PT-4|MD" minopitems="0" maxopitems="1" opitemcount="1" ftitemcount="0">
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    <bpelement elementtype="contentlevel" parentid="SBAC_PT-4|MD|C" minopitems="0" maxopitems="1" opitemcount="1" ftitemcount="0">
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```xml
        <bpelement elementtype="contentlevel" parentid="SBAC_PT-4|OA" minopitems="0" maxopitems="1" opitemcount="1" ftitemcount="0">
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        </bpelement>
    </testblueprint>
    <poolproperty property="--ITEMTYPE--" value="EQ" label="EQ" itemcount="7" />
    <poolproperty property="--ITEMTYPE--" value="GI" label="GI" itemcount="4" />
    <poolproperty property="--ITEMTYPE--" value="MC" label="MC" itemcount="3" />
    <poolproperty property="--ITEMTYPE--" value="MI" label="MI" itemcount="2" />
    <poolproperty property="--ITEMTYPE--" value="MS" label="MS" itemcount="1" />
    <poolproperty property="Language" value="ENU" label="English" itemcount="17" />
    <itempool>
      <testitem filename="item-187-1793.xml" itemtype="MI">
        <identifier uniqueid="187-1793" version="8185" />
        <bpref>(SBAC_PT)SBAC-IRP-CAT-MATH-3-Summer-2015-2016</bpref>
        <bpref>SBAC_PT-1</bpref>
        <bpref>SBAC_PT-1|OA</bpref>
        <bpref>SBAC_PT-1|OA|C-3</bpref>
        <bpref>SBAC_PT-1|OA|C-3|m</bpref>
        <bpref>SBAC_PT-1|OA|C-3|m|3.OA.7</bpref>
        <poolproperty property="--ITEMTYPE--" value="MI" label="MI" />
        <poolproperty property="Language" value="ENU" label="English" />
        <itemscoredimension measurementmodel="IRT3PLn" scorepoints="1" weight="1.000000000000000e+000">
          <itemscoreparameter measurementparameter="a" value="1.000000000000000e+000" />
          <itemscoreparameter measurementparameter="b" value="1.000000000000000e-015" />
          <itemscoreparameter measurementparameter="c" value="0.000000000000000e+000" />
        </itemscoredimension>
      </testitem>
      <testitem filename="item-187-1966.xml" itemtype="GI">
        <identifier uniqueid="187-1966" version="8185" />
        <bpref>(SBAC_PT)SBAC-IRP-CAT-MATH-3-Summer-2015-2016</bpref>
        <bpref>SBAC_PT-3</bpref>
        <bpref>SBAC_PT-3|G</bpref>
        <bpref>SBAC_PT-3|G|F</bpref>
        <bpref>SBAC_PT-3|G|F|NA</bpref>
        <bpref>SBAC_PT-3|G|F|NA|NA</bpref>
        <poolproperty property="--ITEMTYPE--" value="GI" label="GI" />
        <poolproperty property="Language" value="ENU" label="English" />
        <itemscoredimension measurementmodel="IRT3PLn" scorepoints="1" weight="1.000000000000000e+000">
          <itemscoreparameter measurementparameter="a" value="1.000000000000000e+000" />
          <itemscoreparameter measurementparameter="b" value="1.000000000000000e-015" />
```

```xml
      <itemscoreparameter measurementparameter="c" value="0.000000000000000e+000" />
    </itemscoredimension>
  </testitem>
  <testitem filename="item-187-1972.xml" itemtype="GI">
    <identifier uniqueid="187-1972" version="8185" />
    <bpref>(SBAC_PT)SBAC-IRP-CAT-MATH-3-Summer-2015-2016</bpref>
    <bpref>G3Math_DOK2</bpref>
    <bpref>SBAC_PT-1</bpref>
    <bpref>SBAC_PT-1|NF</bpref>
    <bpref>SBAC_PT-1|NF|F-3</bpref>
    <bpref>SBAC_PT-1|NF|F-3|m</bpref>
    <bpref>SBAC_PT-1|NF|F-3|m|3.NF.3c</bpref>
    <poolproperty property="--ITEMTYPE--" value="GI" label="GI" />
    <poolproperty property="Language" value="ENU" label="English" />
    <itemscoredimension measurementmodel="IRT3PLn" scorepoints="1" weight="1.000000000000000e+000">
      <itemscoreparameter measurementparameter="a" value="5.505700000000000e-001" />
      <itemscoreparameter measurementparameter="b" value="5.695100000000000e-001" />
      <itemscoreparameter measurementparameter="c" value="0.000000000000000e+000" />
    </itemscoredimension>
  </testitem>
  <testitem filename="item-187-1973.xml" itemtype="MC">
    <identifier uniqueid="187-1973" version="8185" />
    <bpref>(SBAC_PT)SBAC-IRP-CAT-MATH-3-Summer-2015-2016</bpref>
    <bpref>G3Math_Claim1_MC/MS</bpref>
    <bpref>SBAC_PT-1</bpref>
    <bpref>SBAC_PT-1|OA</bpref>
    <bpref>SBAC_PT-1|OA|A-3</bpref>
    <bpref>SBAC_PT-1|OA|A-3|m</bpref>
    <bpref>SBAC_PT-1|OA|A-3|m|3.OA.3</bpref>
    <poolproperty property="--ITEMTYPE--" value="MC" label="MC" />
    <poolproperty property="Language" value="ENU" label="English" />
    <itemscoredimension measurementmodel="IRT3PLn" scorepoints="1" weight="1.000000000000000e+000">
      <itemscoreparameter measurementparameter="a" value="1.000000000000000e+000" />
      <itemscoreparameter measurementparameter="b" value="1.000000000000000e-015" />
      <itemscoreparameter measurementparameter="c" value="0.000000000000000e+000" />
    </itemscoredimension>
  </testitem>
  <testitem filename="item-187-1975.xml" itemtype="EQ">
    <identifier uniqueid="187-1975" version="8185" />
    <bpref>(SBAC_PT)SBAC-IRP-CAT-MATH-3-Summer-2015-2016</bpref>
    <bpref>SBAC_PT-1</bpref>
    <bpref>SBAC_PT-1|NBT</bpref>
    <bpref>SBAC_PT-1|NBT|E-3</bpref>
    <bpref>SBAC_PT-1|NBT|E-3|a/s</bpref>
    <bpref>SBAC_PT-1|NBT|E-3|a/s|3.NBT.2</bpref>
    <poolproperty property="--ITEMTYPE--" value="EQ" label="EQ" />
```

```xml
      <poolproperty property="Language" value="ENU" label="English" />
      <itemscoredimension measurementmodel="IRT3PLn" scorepoints="1" weight="1.000000000000000e+000">
        <itemscoreparameter measurementparameter="a" value="1.000000000000000e+000" />
        <itemscoreparameter measurementparameter="b" value="1.000000000000000e-015" />
        <itemscoreparameter measurementparameter="c" value="0.000000000000000e+000" />
      </itemscoredimension>
    </testitem>
    <testitem filename="item-187-1976.xml" itemtype="EQ">
      <identifier uniqueid="187-1976" version="8185" />
      <bpref>(SBAC_PT)SBAC-IRP-CAT-MATH-3-Summer-2015-2016</bpref>
      <bpref>G3Math_DOK2</bpref>
      <bpref>SBAC_PT-1</bpref>
      <bpref>SBAC_PT-1|MD</bpref>
      <bpref>SBAC_PT-1|MD|H-3</bpref>
      <bpref>SBAC_PT-1|MD|H-3|a/s</bpref>
      <bpref>SBAC_PT-1|MD|H-3|a/s|3.MD.3</bpref>
      <poolproperty property="--ITEMTYPE--" value="EQ" label="EQ" />
      <poolproperty property="Language" value="ENU" label="English" />
      <itemscoredimension measurementmodel="IRT3PLn" scorepoints="1" weight="1.000000000000000e+000">
        <itemscoreparameter measurementparameter="a" value="5.300400000000000e-001" />
        <itemscoreparameter measurementparameter="b" value="-1.108910000000000e+000" />
        <itemscoreparameter measurementparameter="c" value="0.000000000000000e+000" />
      </itemscoredimension>
    </testitem>
    <testitem filename="item-187-1978.xml" itemtype="EQ">
      <identifier uniqueid="187-1978" version="8185" />
      <bpref>(SBAC_PT)SBAC-IRP-CAT-MATH-3-Summer-2015-2016</bpref>
      <bpref>G3Math_Claim2/4</bpref>
      <bpref>G3Math_DOK2</bpref>
      <bpref>SBAC_PT-4</bpref>
      <bpref>SBAC_PT-4|OA</bpref>
      <bpref>SBAC_PT-4|OA|E</bpref>
      <bpref>SBAC_PT-4|OA|E|NA</bpref>
      <bpref>SBAC_PT-4|OA|E|NA|NA</bpref>
      <poolproperty property="--ITEMTYPE--" value="EQ" label="EQ" />
      <poolproperty property="Language" value="ENU" label="English" />
      <itemscoredimension measurementmodel="IRT3PLn" scorepoints="1" weight="1.000000000000000e+000">
        <itemscoreparameter measurementparameter="a" value="1.000000000000000e+000" />
        <itemscoreparameter measurementparameter="b" value="1.000000000000000e-015" />
        <itemscoreparameter measurementparameter="c" value="0.000000000000000e+000" />
      </itemscoredimension>
    </testitem>
    <testitem filename="item-187-1979.xml" itemtype="GI">
      <identifier uniqueid="187-1979" version="8185" />
      <bpref>(SBAC_PT)SBAC-IRP-CAT-MATH-3-Summer-2015-2016</bpref>
      <bpref>G3Math_DOK2</bpref>
```

```xml
    <bpref>SBAC_PT-3</bpref>
    <bpref>SBAC_PT-3|NF</bpref>
    <bpref>SBAC_PT-3|NF|A</bpref>
    <bpref>SBAC_PT-3|NF|A|NA</bpref>
    <bpref>SBAC_PT-3|NF|A|NA|NA</bpref>
    <poolproperty property="--ITEMTYPE--" value="GI" label="GI" />
    <poolproperty property="Language" value="ENU" label="English" />
    <itemscoredimension measurementmodel="IRTGPC" scorepoints="2" weight="1.000000000000000e+000">
      <itemscoreparameter measurementparameter="a" value="1.000000000000000e+000" />
      <itemscoreparameter measurementparameter="b0" value="1.000000000000000e-015" />
      <itemscoreparameter measurementparameter="b1" value="1.000000000000000e-015" />
    </itemscoredimension>
  </testitem>
  <testitem filename="item-187-1986.xml" itemtype="EQ">
    <identifier uniqueid="187-1986" version="8185" />
    <bpref>(SBAC_PT)SBAC-IRP-CAT-MATH-3-Summer-2015-2016</bpref>
    <bpref>G3Math_DOK2</bpref>
    <bpref>SBAC_PT-1</bpref>
    <bpref>SBAC_PT-1|MD</bpref>
    <bpref>SBAC_PT-1|MD|G-3</bpref>
    <bpref>SBAC_PT-1|MD|G-3|m</bpref>
    <bpref>SBAC_PT-1|MD|G-3|m|3.MD.2</bpref>
    <poolproperty property="--ITEMTYPE--" value="EQ" label="EQ" />
    <poolproperty property="Language" value="ENU" label="English" />
    <itemscoredimension measurementmodel="IRT3PLn" scorepoints="1" weight="1.000000000000000e+000">
      <itemscoreparameter measurementparameter="a" value="1.000000000000000e+000" />
      <itemscoreparameter measurementparameter="b" value="1.000000000000000e-015" />
      <itemscoreparameter measurementparameter="c" value="0.000000000000000e+000" />
    </itemscoredimension>
  </testitem>
  <testitem filename="item-187-1987.xml" itemtype="EQ">
    <identifier uniqueid="187-1987" version="8185" />
    <bpref>(SBAC_PT)SBAC-IRP-CAT-MATH-3-Summer-2015-2016</bpref>
    <bpref>SBAC_PT-1</bpref>
    <bpref>SBAC_PT-1|MD</bpref>
    <bpref>SBAC_PT-1|MD|J-3</bpref>
    <bpref>SBAC_PT-1|MD|J-3|a/s</bpref>
    <bpref>SBAC_PT-1|MD|J-3|a/s|3.MD.8</bpref>
    <poolproperty property="--ITEMTYPE--" value="EQ" label="EQ" />
    <poolproperty property="Language" value="ENU" label="English" />
    <itemscoredimension measurementmodel="IRT3PLn" scorepoints="1" weight="1.000000000000000e+000">
      <itemscoreparameter measurementparameter="a" value="1.189700000000000e+000" />
      <itemscoreparameter measurementparameter="b" value="1.946350000000000e+000" />
      <itemscoreparameter measurementparameter="c" value="0.000000000000000e+000" />
    </itemscoredimension>
  </testitem>
```

```xml
<testitem filename="item-187-1988.xml" itemtype="MI">
  <identifier uniqueid="187-1988" version="8185" />
  <bpref>(SBAC_PT)SBAC-IRP-CAT-MATH-3-Summer-2015-2016</bpref>
  <bpref>G3Math_DOK2</bpref>
  <bpref>SBAC_PT-3</bpref>
  <bpref>SBAC_PT-3|OA</bpref>
  <bpref>SBAC_PT-3|OA|D</bpref>
  <bpref>SBAC_PT-3|OA|D|NA</bpref>
  <bpref>SBAC_PT-3|OA|D|NA|NA</bpref>
  <poolproperty property="--ITEMTYPE--" value="MI" label="MI" />
  <poolproperty property="Language" value="ENU" label="English" />
  <itemscoredimension measurementmodel="IRT3PLn" scorepoints="1" weight="1.000000000000000e+000">
    <itemscoreparameter measurementparameter="a" value="7.348800000000000e-001" />
    <itemscoreparameter measurementparameter="b" value="-1.006060000000000e+000" />
    <itemscoreparameter measurementparameter="c" value="0.000000000000000e+000" />
  </itemscoredimension>
</testitem>
<testitem filename="item-187-1991.xml" itemtype="EQ">
  <identifier uniqueid="187-1991" version="8185" />
  <bpref>(SBAC_PT)SBAC-IRP-CAT-MATH-3-Summer-2015-2016</bpref>
  <bpref>G3Math_DOK2</bpref>
  <bpref>SBAC_PT-1</bpref>
  <bpref>SBAC_PT-1|MD</bpref>
  <bpref>SBAC_PT-1|MD|I-3</bpref>
  <bpref>SBAC_PT-1|MD|I-3|m</bpref>
  <bpref>SBAC_PT-1|MD|I-3|m|3.MD.7d</bpref>
  <poolproperty property="--ITEMTYPE--" value="EQ" label="EQ" />
  <poolproperty property="Language" value="ENU" label="English" />
  <itemscoredimension measurementmodel="IRT3PLn" scorepoints="1" weight="1.000000000000000e+000">
    <itemscoreparameter measurementparameter="a" value="8.254600000000000e-001" />
    <itemscoreparameter measurementparameter="b" value="2.037520000000000e+000" />
    <itemscoreparameter measurementparameter="c" value="0.000000000000000e+000" />
  </itemscoredimension>
</testitem>
<testitem filename="item-187-1996.xml" itemtype="EQ">
  <identifier uniqueid="187-1996" version="8185" />
  <bpref>(SBAC_PT)SBAC-IRP-CAT-MATH-3-Summer-2015-2016</bpref>
  <bpref>G3Math_Claim2/4</bpref>
  <bpref>SBAC_PT-4</bpref>
  <bpref>SBAC_PT-4|MD</bpref>
  <bpref>SBAC_PT-4|MD|C</bpref>
  <bpref>SBAC_PT-4|MD|C|NA</bpref>
  <bpref>SBAC_PT-4|MD|C|NA|NA</bpref>
  <poolproperty property="--ITEMTYPE--" value="EQ" label="EQ" />
  <poolproperty property="Language" value="ENU" label="English" />
  <itemscoredimension measurementmodel="IRTGPC" scorepoints="2" weight="1.000000000000000e+000">
```

```xml
          <itemscoreparameter measurementparameter="a" value="7.955800000000000e-001" />
          <itemscoreparameter measurementparameter="b0" value="-1.194170000000000e+000" />
          <itemscoreparameter measurementparameter="b1" value="1.145090000000000e+000" />
        </itemscoredimension>
    </testitem>
    <testitem filename="item-187-2001.xml" itemtype="MC">
      <identifier uniqueid="187-2001" version="8185" />
      <bpref>(SBAC_PT)SBAC-IRP-CAT-MATH-3-Summer-2015-2016</bpref>
      <bpref>G3Math_DOK2</bpref>
      <bpref>SBAC_PT-3</bpref>
      <bpref>SBAC_PT-3|MD</bpref>
      <bpref>SBAC_PT-3|MD|C</bpref>
      <bpref>SBAC_PT-3|MD|C|NA</bpref>
      <bpref>SBAC_PT-3|MD|C|NA|NA</bpref>
      <poolproperty property="--ITEMTYPE--" value="MC" label="MC" />
      <poolproperty property="Language" value="ENU" label="English" />
      <itemscoredimension measurementmodel="IRT3PLn" scorepoints="1" weight="1.000000000000000e+000">
          <itemscoreparameter measurementparameter="a" value="1.000000000000000e+000" />
          <itemscoreparameter measurementparameter="b" value="1.000000000000000e-015" />
          <itemscoreparameter measurementparameter="c" value="0.000000000000000e+000" />
        </itemscoredimension>
    </testitem>
    <testitem filename="item-187-2015.xml" itemtype="MS">
      <identifier uniqueid="187-2015" version="8185" />
      <bpref>(SBAC_PT)SBAC-IRP-CAT-MATH-3-Summer-2015-2016</bpref>
      <bpref>G3Math_Claim1_MC/MS</bpref>
      <bpref>SBAC_PT-1</bpref>
      <bpref>SBAC_PT-1|NF</bpref>
      <bpref>SBAC_PT-1|NF|F-3</bpref>
      <bpref>SBAC_PT-1|NF|F-3|m</bpref>
      <bpref>SBAC_PT-1|NF|F-3|m|3.NF.3a</bpref>
      <poolproperty property="--ITEMTYPE--" value="MS" label="MS" />
      <poolproperty property="Language" value="ENU" label="English" />
      <itemscoredimension measurementmodel="IRT3PLn" scorepoints="1" weight="1.000000000000000e+000">
          <itemscoreparameter measurementparameter="a" value="1.000000000000000e+000" />
          <itemscoreparameter measurementparameter="b" value="1.000000000000000e-015" />
          <itemscoreparameter measurementparameter="c" value="0.000000000000000e+000" />
        </itemscoredimension>
    </testitem>
    <testitem filename="item-187-2017.xml" itemtype="GI">
      <identifier uniqueid="187-2017" version="8185" />
      <bpref>(SBAC_PT)SBAC-IRP-CAT-MATH-3-Summer-2015-2016</bpref>
      <bpref>G3Math_Claim2/4</bpref>
      <bpref>SBAC_PT-4</bpref>
      <bpref>SBAC_PT-4|OA</bpref>
      <bpref>SBAC_PT-4|OA|D</bpref>
```

```xml
      <bpref>SBAC_PT-4|OA|D|NA</bpref>
      <bpref>SBAC_PT-4|OA|D|NA|NA</bpref>
      <poolproperty property="--ITEMTYPE--" value="GI" label="GI" />
      <poolproperty property="Language" value="ENU" label="English" />
      <itemscoredimension measurementmodel="IRTGPC" scorepoints="2" weight="1.000000000000000e+000">
        <itemscoreparameter measurementparameter="a" value="1.000000000000000e+000" />
        <itemscoreparameter measurementparameter="b0" value="1.000000000000000e-015" />
        <itemscoreparameter measurementparameter="b1" value="1.000000000000000e-015" />
      </itemscoredimension>
    </testitem>
    <testitem filename="item-187-2024.xml" itemtype="MC">
      <identifier uniqueid="187-2024" version="8185" />
      <bpref>(SBAC_PT)SBAC-IRP-CAT-MATH-3-Summer-2015-2016</bpref>
      <bpref>G3Math_Claim2/4</bpref>
      <bpref>G3Math_DOK2</bpref>
      <bpref>SBAC_PT-2</bpref>
      <bpref>SBAC_PT-2|MD</bpref>
      <bpref>SBAC_PT-2|MD|B</bpref>
      <bpref>SBAC_PT-2|MD|B|NA</bpref>
      <bpref>SBAC_PT-2|MD|B|NA|NA</bpref>
      <poolproperty property="--ITEMTYPE--" value="MC" label="MC" />
      <poolproperty property="Language" value="ENU" label="English" />
      <itemscoredimension measurementmodel="IRT3PLn" scorepoints="1" weight="1.000000000000000e+000">
        <itemscoreparameter measurementparameter="a" value="1.000000000000000e+000" />
        <itemscoreparameter measurementparameter="b" value="1.000000000000000e-015" />
        <itemscoreparameter measurementparameter="c" value="0.000000000000000e+000" />
      </itemscoredimension>
    </testitem>
  </itempool>
  <adminsegment segmentid="(SBAC_PT)SBAC-IRP-CAT-MATH-3-Summer-2015-2016" position="1" itemselection="adaptive2">
    <segmentblueprint>
      <segmentbpelement bpelementid="SBAC_PT-1" minopitems="4" maxopitems="4" />
      <segmentbpelement bpelementid="SBAC_PT-2" minopitems="0" maxopitems="2" />
      <segmentbpelement bpelementid="SBAC_PT-3" minopitems="2" maxopitems="2" />
      <segmentbpelement bpelementid="SBAC_PT-4" minopitems="0" maxopitems="2" />
      <segmentbpelement bpelementid="SBAC_PT-1|MD" minopitems="0" maxopitems="4" />
      <segmentbpelement bpelementid="SBAC_PT-1|NBT" minopitems="0" maxopitems="1" />
      <segmentbpelement bpelementid="SBAC_PT-1|NF" minopitems="0" maxopitems="1" />
      <segmentbpelement bpelementid="SBAC_PT-1|OA" minopitems="0" maxopitems="4" />
      <segmentbpelement bpelementid="SBAC_PT-2|MD" minopitems="0" maxopitems="1" />
      <segmentbpelement bpelementid="SBAC_PT-3|G" minopitems="0" maxopitems="0" />
      <segmentbpelement bpelementid="SBAC_PT-3|MD" minopitems="0" maxopitems="1" />
      <segmentbpelement bpelementid="SBAC_PT-3|NF" minopitems="0" maxopitems="1" />
      <segmentbpelement bpelementid="SBAC_PT-3|OA" minopitems="0" maxopitems="1" />
      <segmentbpelement bpelementid="SBAC_PT-4|MD" minopitems="0" maxopitems="1" />
      <segmentbpelement bpelementid="SBAC_PT-4|OA" minopitems="0" maxopitems="1" />
```

```xml
<segmentbpelement bpelementid="SBAC_PT-1|MD|G-3" minopitems="0" maxopitems="1" />
<segmentbpelement bpelementid="SBAC_PT-1|MD|H-3" minopitems="0" maxopitems="1" />
<segmentbpelement bpelementid="SBAC_PT-1|MD|I-3" minopitems="0" maxopitems="1" />
<segmentbpelement bpelementid="SBAC_PT-1|MD|J-3" minopitems="0" maxopitems="1" />
<segmentbpelement bpelementid="SBAC_PT-1|NBT|E-3" minopitems="0" maxopitems="1" />
<segmentbpelement bpelementid="SBAC_PT-1|NF|F-3" minopitems="0" maxopitems="1" />
<segmentbpelement bpelementid="SBAC_PT-1|OA|A-3" minopitems="0" maxopitems="1" />
<segmentbpelement bpelementid="SBAC_PT-1|OA|C-3" minopitems="0" maxopitems="1" />
<segmentbpelement bpelementid="SBAC_PT-2|MD|B" minopitems="0" maxopitems="1" />
<segmentbpelement bpelementid="SBAC_PT-3|G|F" minopitems="0" maxopitems="0" />
<segmentbpelement bpelementid="SBAC_PT-3|MD|C" minopitems="0" maxopitems="1" />
<segmentbpelement bpelementid="SBAC_PT-3|NF|A" minopitems="0" maxopitems="1" />
<segmentbpelement bpelementid="SBAC_PT-3|OA|D" minopitems="0" maxopitems="1" />
<segmentbpelement bpelementid="SBAC_PT-4|MD|C" minopitems="0" maxopitems="1" />
<segmentbpelement bpelementid="SBAC_PT-4|OA|D" minopitems="0" maxopitems="1" />
<segmentbpelement bpelementid="SBAC_PT-4|OA|E" minopitems="0" maxopitems="1" />
<segmentbpelement bpelementid="SBAC_PT-1|MD|G-3|m" minopitems="0" maxopitems="1" />
<segmentbpelement bpelementid="SBAC_PT-1|MD|H-3|a/s" minopitems="0" maxopitems="1" />
<segmentbpelement bpelementid="SBAC_PT-1|MD|I-3|m" minopitems="0" maxopitems="1" />
<segmentbpelement bpelementid="SBAC_PT-1|MD|J-3|a/s" minopitems="0" maxopitems="1" />
<segmentbpelement bpelementid="SBAC_PT-1|NBT|E-3|a/s" minopitems="0" maxopitems="1" />
<segmentbpelement bpelementid="SBAC_PT-1|NF|F-3|m" minopitems="0" maxopitems="1" />
<segmentbpelement bpelementid="SBAC_PT-1|OA|A-3|m" minopitems="0" maxopitems="1" />
<segmentbpelement bpelementid="SBAC_PT-1|OA|C-3|m" minopitems="0" maxopitems="1" />
<segmentbpelement bpelementid="SBAC_PT-2|MD|B|NA" minopitems="0" maxopitems="1" />
<segmentbpelement bpelementid="SBAC_PT-3|G|F|NA" minopitems="0" maxopitems="0" />
<segmentbpelement bpelementid="SBAC_PT-3|MD|C|NA" minopitems="0" maxopitems="1" />
<segmentbpelement bpelementid="SBAC_PT-3|NF|A|NA" minopitems="0" maxopitems="1" />
<segmentbpelement bpelementid="SBAC_PT-3|OA|D|NA" minopitems="0" maxopitems="1" />
<segmentbpelement bpelementid="SBAC_PT-4|MD|C|NA" minopitems="0" maxopitems="1" />
<segmentbpelement bpelementid="SBAC_PT-4|OA|D|NA" minopitems="0" maxopitems="1" />
<segmentbpelement bpelementid="SBAC_PT-4|OA|E|NA" minopitems="0" maxopitems="1" />
<segmentbpelement bpelementid="SBAC_PT-1|MD|G-3|m|3.MD.2" minopitems="0" maxopitems="1" />
<segmentbpelement bpelementid="SBAC_PT-1|MD|H-3|a/s|3.MD.3" minopitems="0" maxopitems="1" />
<segmentbpelement bpelementid="SBAC_PT-1|MD|I-3|m|3.MD.7d" minopitems="0" maxopitems="1" />
<segmentbpelement bpelementid="SBAC_PT-1|MD|J-3|a/s|3.MD.8" minopitems="0" maxopitems="1" />
<segmentbpelement bpelementid="SBAC_PT-1|NBT|E-3|a/s|3.NBT.2" minopitems="0" maxopitems="1" />
<segmentbpelement bpelementid="SBAC_PT-1|NF|F-3|m|3.NF.3a" minopitems="0" maxopitems="1" />
<segmentbpelement bpelementid="SBAC_PT-1|NF|F-3|m|3.NF.3c" minopitems="0" maxopitems="1" />
<segmentbpelement bpelementid="SBAC_PT-1|OA|A-3|m|3.OA.3" minopitems="0" maxopitems="1" />
<segmentbpelement bpelementid="SBAC_PT-1|OA|C-3|m|3.OA.7" minopitems="0" maxopitems="1" />
<segmentbpelement bpelementid="SBAC_PT-2|MD|B|NA|NA" minopitems="0" maxopitems="1" />
<segmentbpelement bpelementid="SBAC_PT-3|G|F|NA|NA" minopitems="0" maxopitems="0" />
<segmentbpelement bpelementid="SBAC_PT-3|MD|C|NA|NA" minopitems="0" maxopitems="1" />
<segmentbpelement bpelementid="SBAC_PT-3|NF|A|NA|NA" minopitems="0" maxopitems="1" />
<segmentbpelement bpelementid="SBAC_PT-3|OA|D|NA|NA" minopitems="0" maxopitems="1" />
```

```xml
            <segmentbpelement bpelementid="SBAC_PT-4|MD|C|NA|NA" minopitems="0" maxopitems="1" />
            <segmentbpelement bpelementid="SBAC_PT-4|OA|D|NA|NA" minopitems="0" maxopitems="1" />
            <segmentbpelement bpelementid="SBAC_PT-4|OA|E|NA|NA" minopitems="0" maxopitems="1" />
            <segmentbpelement bpelementid="G3Math_Claim1_MC/MS" minopitems="2" maxopitems="2" />
            <segmentbpelement bpelementid="G3Math_Claim2/4" minopitems="2" maxopitems="2" />
            <segmentbpelement bpelementid="G3Math_DOK2" minopitems="2" maxopitems="8" />
        </segmentblueprint>
        <itemselector type="adaptive">
            <identifier uniqueid="AIR ADAPTIVE1" name="AIR ADAPTIVE" label="AIR ADAPTIVE" version="1.0" />
            <itemselectionparameter bpelementid="(SBAC_PT)SBAC-IRP-CAT-MATH-3-Summer-2015-2016">
                <property name="bpweight" value="1" label="blueprint metric weight relative to ability metric weight of 1.0" />
                <property name="startability" value="-1.28499" label="start ability" />
                <property name="startinfo" value="0.2" label="start information" />
                <property name="cset1size" value="5" label="cset 1 size" />
                <property name="cset1order" value="ABILITY" label="cset 1 tie breaker" />
                <property name="cset2random" value="3" label="randomizer for item selection" />
                <property name="cset2initialrandom" value="17" label="randomizer for first item selection" />
                <property name="abilityoffset" value="0" label="offset for ability estimate" />
                <property name="itemweight" value="1" label="blueprint weight of items in chosen group relative to ability match for final pruning step" />
                <property name="slope" value="79.3" label="slope" />
                <property name="intercept" value="2514.9" label="intercept" />
                <property name="precisiontarget" value="1" label="precision target" />
                <property name="adaptivecut" value="0" label="adaptive cut" />
                <property name="toocloseses" value="0" label="too Close SEs" />
                <property name="abilityweight" value="1" label="ability weight" />
                <property name="computeabilityestimates" value="false" label="compute ability estimates" />
                <property name="rcabilityweight" value="0" label="rc ability weight" />
                <property name="precisionTargetMetWeight" value="1" label="precisionTargetMetWeight" />
                <property name="precisionTargetNotMetWeight" value="1" label="precisionTargetNotMetWeight" />
                <property name="terminationOverallInfo" value="false" label="terminationOverallInfo" />
                <property name="terminationRCInfo" value="false" label="terminationRCInfo" />
                <property name="terminationMinCount" value="true" label="terminationMinCount" />
                <property name="terminationTooClose" value="false" label="terminationTooClose" />
                <property name="terminationFlagsAnd" value="false" label="terminationFlagsAnd" />
                <property name="offGradeProbAffectProficiency" value="0.01" label="Probability that introducing off-grade items will influence the student proficiency must be less than this value" />
                <property name="proficientPLevel" value="3" label="Level at which student is considered proficient for the test" />
                <property name="offGradeMinItemsAdministered" value="30" label="Minimum number of on-grade operational items administered before considering for off-grade items" />
            </itemselectionparameter>
            <itemselectionparameter bpelementid="SBAC_PT-1">
                <property name="isstrictmax" value="true" label="Strict maximum flag" />
                <property name="bpweight" value="1" label="Blueprint weight relative to other elements" />
                <property name="adaptivecut" value="-31.7137" label="adaptive cut point" />
                <property name="startability" value="-31.7137" label="start ability" />
                <property name="startinfo" value="0" label="start information" />
```

```xml
      <property name="scalar" value="5" label="relative ability strand weight" />
    </itemselectionparameter>
    <itemselectionparameter bpelementid="SBAC_PT-2">
      <property name="isstrictmax" value="true" label="Strict maximum flag" />
      <property name="bpweight" value="1" label="Blueprint weight relative to other elements" />
      <property name="adaptivecut" value="-31.7137" label="adaptive cut point" />
      <property name="startability" value="-31.7137" label="start ability" />
      <property name="startinfo" value="0" label="start information" />
      <property name="scalar" value="5" label="relative ability strand weight" />
    </itemselectionparameter>
    <itemselectionparameter bpelementid="SBAC_PT-3">
      <property name="isstrictmax" value="true" label="Strict maximum flag" />
      <property name="bpweight" value="1" label="Blueprint weight relative to other elements" />
      <property name="adaptivecut" value="-31.7137" label="adaptive cut point" />
      <property name="startability" value="-31.7137" label="start ability" />
      <property name="startinfo" value="0" label="start information" />
      <property name="scalar" value="5" label="relative ability strand weight" />
    </itemselectionparameter>
    <itemselectionparameter bpelementid="SBAC_PT-4">
      <property name="isstrictmax" value="true" label="Strict maximum flag" />
      <property name="bpweight" value="1" label="Blueprint weight relative to other elements" />
      <property name="adaptivecut" value="-31.7137" label="adaptive cut point" />
      <property name="startability" value="-31.7137" label="start ability" />
      <property name="startinfo" value="0" label="start information" />
      <property name="scalar" value="5" label="relative ability strand weight" />
    </itemselectionparameter>
    <itemselectionparameter bpelementid="SBAC_PT-1|MD">
      <property name="isstrictmax" value="true" label="Strict maximum flag" />
      <property name="bpweight" value="1" label="Blueprint weight relative to other elements" />
    </itemselectionparameter>
    <itemselectionparameter bpelementid="SBAC_PT-1|NBT">
      <property name="isstrictmax" value="true" label="Strict maximum flag" />
      <property name="bpweight" value="1" label="Blueprint weight relative to other elements" />
    </itemselectionparameter>
    <itemselectionparameter bpelementid="SBAC_PT-1|NF">
      <property name="isstrictmax" value="true" label="Strict maximum flag" />
      <property name="bpweight" value="1" label="Blueprint weight relative to other elements" />
    </itemselectionparameter>
    <itemselectionparameter bpelementid="SBAC_PT-1|OA">
      <property name="isstrictmax" value="true" label="Strict maximum flag" />
      <property name="bpweight" value="1" label="Blueprint weight relative to other elements" />
    </itemselectionparameter>
    <itemselectionparameter bpelementid="SBAC_PT-2|MD">
      <property name="isstrictmax" value="true" label="Strict maximum flag" />
      <property name="bpweight" value="1" label="Blueprint weight relative to other elements" />
    </itemselectionparameter>
```

```
<itemselectionparameter bpelementid="SBAC_PT-3|G">
  <property name="isstrictmax" value="false" label="Strict maximum flag" />
  <property name="bpweight" value="1" label="Blueprint weight relative to other elements" />
</itemselectionparameter>
<itemselectionparameter bpelementid="SBAC_PT-3|MD">
  <property name="isstrictmax" value="true" label="Strict maximum flag" />
  <property name="bpweight" value="1" label="Blueprint weight relative to other elements" />
</itemselectionparameter>
<itemselectionparameter bpelementid="SBAC_PT-3|NF">
  <property name="isstrictmax" value="true" label="Strict maximum flag" />
  <property name="bpweight" value="1" label="Blueprint weight relative to other elements" />
</itemselectionparameter>
<itemselectionparameter bpelementid="SBAC_PT-3|OA">
  <property name="isstrictmax" value="true" label="Strict maximum flag" />
  <property name="bpweight" value="1" label="Blueprint weight relative to other elements" />
</itemselectionparameter>
<itemselectionparameter bpelementid="SBAC_PT-4|MD">
  <property name="isstrictmax" value="false" label="Strict maximum flag" />
  <property name="bpweight" value="1" label="Blueprint weight relative to other elements" />
</itemselectionparameter>
<itemselectionparameter bpelementid="SBAC_PT-4|OA">
  <property name="isstrictmax" value="false" label="Strict maximum flag" />
  <property name="bpweight" value="1" label="Blueprint weight relative to other elements" />
</itemselectionparameter>
<itemselectionparameter bpelementid="SBAC_PT-1|MD|G-3">
  <property name="isstrictmax" value="false" label="Strict maximum flag" />
  <property name="bpweight" value="1" label="Blueprint weight relative to other elements" />
</itemselectionparameter>
<itemselectionparameter bpelementid="SBAC_PT-1|MD|H-3">
  <property name="isstrictmax" value="false" label="Strict maximum flag" />
  <property name="bpweight" value="1" label="Blueprint weight relative to other elements" />
</itemselectionparameter>
<itemselectionparameter bpelementid="SBAC_PT-1|MD|I-3">
  <property name="isstrictmax" value="false" label="Strict maximum flag" />
  <property name="bpweight" value="1" label="Blueprint weight relative to other elements" />
</itemselectionparameter>
<itemselectionparameter bpelementid="SBAC_PT-1|MD|J-3">
  <property name="isstrictmax" value="false" label="Strict maximum flag" />
  <property name="bpweight" value="1" label="Blueprint weight relative to other elements" />
</itemselectionparameter>
<itemselectionparameter bpelementid="SBAC_PT-1|NBT|E-3">
  <property name="isstrictmax" value="false" label="Strict maximum flag" />
  <property name="bpweight" value="1" label="Blueprint weight relative to other elements" />
</itemselectionparameter>
<itemselectionparameter bpelementid="SBAC_PT-1|NF|F-3">
  <property name="isstrictmax" value="false" label="Strict maximum flag" />
```

```xml
            <property name="bpweight" value="1" label="Blueprint weight relative to other elements" />
        </itemselectionparameter>
        <itemselectionparameter bpelementid="SBAC_PT-1|OA|A-3">
            <property name="isstrictmax" value="false" label="Strict maximum flag" />
            <property name="bpweight" value="1" label="Blueprint weight relative to other elements" />
        </itemselectionparameter>
        <itemselectionparameter bpelementid="SBAC_PT-1|OA|C-3">
            <property name="isstrictmax" value="false" label="Strict maximum flag" />
            <property name="bpweight" value="1" label="Blueprint weight relative to other elements" />
        </itemselectionparameter>
        <itemselectionparameter bpelementid="SBAC_PT-2|MD|B">
            <property name="isstrictmax" value="false" label="Strict maximum flag" />
            <property name="bpweight" value="1" label="Blueprint weight relative to other elements" />
        </itemselectionparameter>
        <itemselectionparameter bpelementid="SBAC_PT-3|G|F">
            <property name="isstrictmax" value="false" label="Strict maximum flag" />
            <property name="bpweight" value="1" label="Blueprint weight relative to other elements" />
        </itemselectionparameter>
        <itemselectionparameter bpelementid="SBAC_PT-3|MD|C">
            <property name="isstrictmax" value="false" label="Strict maximum flag" />
            <property name="bpweight" value="1" label="Blueprint weight relative to other elements" />
        </itemselectionparameter>
        <itemselectionparameter bpelementid="SBAC_PT-3|NF|A">
            <property name="isstrictmax" value="false" label="Strict maximum flag" />
            <property name="bpweight" value="1" label="Blueprint weight relative to other elements" />
        </itemselectionparameter>
        <itemselectionparameter bpelementid="SBAC_PT-3|OA|D">
            <property name="isstrictmax" value="false" label="Strict maximum flag" />
            <property name="bpweight" value="1" label="Blueprint weight relative to other elements" />
        </itemselectionparameter>
        <itemselectionparameter bpelementid="SBAC_PT-4|MD|C">
            <property name="isstrictmax" value="false" label="Strict maximum flag" />
            <property name="bpweight" value="1" label="Blueprint weight relative to other elements" />
        </itemselectionparameter>
        <itemselectionparameter bpelementid="SBAC_PT-4|OA|D">
            <property name="isstrictmax" value="false" label="Strict maximum flag" />
            <property name="bpweight" value="1" label="Blueprint weight relative to other elements" />
        </itemselectionparameter>
        <itemselectionparameter bpelementid="SBAC_PT-4|OA|E">
            <property name="isstrictmax" value="false" label="Strict maximum flag" />
            <property name="bpweight" value="1" label="Blueprint weight relative to other elements" />
        </itemselectionparameter>
        <itemselectionparameter bpelementid="SBAC_PT-1|MD|G-3|m">
            <property name="isstrictmax" value="false" label="Strict maximum flag" />
            <property name="bpweight" value="1" label="Blueprint weight relative to other elements" />
        </itemselectionparameter>
```

```
<itemselectionparameter bpelementid="SBAC_PT-1|MD|H-3|a/s">
  <property name="isstrictmax" value="false" label="Strict maximum flag" />
  <property name="bpweight" value="1" label="Blueprint weight relative to other elements" />
</itemselectionparameter>
<itemselectionparameter bpelementid="SBAC_PT-1|MD|I-3|m">
  <property name="isstrictmax" value="false" label="Strict maximum flag" />
  <property name="bpweight" value="1" label="Blueprint weight relative to other elements" />
</itemselectionparameter>
<itemselectionparameter bpelementid="SBAC_PT-1|MD|J-3|a/s">
  <property name="isstrictmax" value="false" label="Strict maximum flag" />
  <property name="bpweight" value="1" label="Blueprint weight relative to other elements" />
</itemselectionparameter>
<itemselectionparameter bpelementid="SBAC_PT-1|NBT|E-3|a/s">
  <property name="isstrictmax" value="false" label="Strict maximum flag" />
  <property name="bpweight" value="1" label="Blueprint weight relative to other elements" />
</itemselectionparameter>
<itemselectionparameter bpelementid="SBAC_PT-1|NF|F-3|m">
  <property name="isstrictmax" value="false" label="Strict maximum flag" />
  <property name="bpweight" value="1" label="Blueprint weight relative to other elements" />
</itemselectionparameter>
<itemselectionparameter bpelementid="SBAC_PT-1|OA|A-3|m">
  <property name="isstrictmax" value="false" label="Strict maximum flag" />
  <property name="bpweight" value="1" label="Blueprint weight relative to other elements" />
</itemselectionparameter>
<itemselectionparameter bpelementid="SBAC_PT-1|OA|C-3|m">
  <property name="isstrictmax" value="false" label="Strict maximum flag" />
  <property name="bpweight" value="1" label="Blueprint weight relative to other elements" />
</itemselectionparameter>
<itemselectionparameter bpelementid="SBAC_PT-2|MD|B|NA">
  <property name="isstrictmax" value="false" label="Strict maximum flag" />
  <property name="bpweight" value="1" label="Blueprint weight relative to other elements" />
</itemselectionparameter>
<itemselectionparameter bpelementid="SBAC_PT-3|G|F|NA">
  <property name="isstrictmax" value="false" label="Strict maximum flag" />
  <property name="bpweight" value="1" label="Blueprint weight relative to other elements" />
</itemselectionparameter>
<itemselectionparameter bpelementid="SBAC_PT-3|MD|C|NA">
  <property name="isstrictmax" value="false" label="Strict maximum flag" />
  <property name="bpweight" value="1" label="Blueprint weight relative to other elements" />
</itemselectionparameter>
<itemselectionparameter bpelementid="SBAC_PT-3|NF|A|NA">
  <property name="isstrictmax" value="false" label="Strict maximum flag" />
  <property name="bpweight" value="1" label="Blueprint weight relative to other elements" />
</itemselectionparameter>
<itemselectionparameter bpelementid="SBAC_PT-3|OA|D|NA">
  <property name="isstrictmax" value="false" label="Strict maximum flag" />
```

```xml
      <property name="bpweight" value="1" label="Blueprint weight relative to other elements" />
    </itemselectionparameter>
    <itemselectionparameter bpelementid="SBAC_PT-4|MD|C|NA">
      <property name="isstrictmax" value="false" label="Strict maximum flag" />
      <property name="bpweight" value="1" label="Blueprint weight relative to other elements" />
    </itemselectionparameter>
    <itemselectionparameter bpelementid="SBAC_PT-4|OA|D|NA">
      <property name="isstrictmax" value="false" label="Strict maximum flag" />
      <property name="bpweight" value="1" label="Blueprint weight relative to other elements" />
    </itemselectionparameter>
    <itemselectionparameter bpelementid="SBAC_PT-4|OA|E|NA">
      <property name="isstrictmax" value="false" label="Strict maximum flag" />
      <property name="bpweight" value="1" label="Blueprint weight relative to other elements" />
    </itemselectionparameter>
    <itemselectionparameter bpelementid="SBAC_PT-1|MD|G-3|m|3.MD.2">
      <property name="isstrictmax" value="false" label="Strict maximum flag" />
      <property name="bpweight" value="1" label="Blueprint weight relative to other elements" />
    </itemselectionparameter>
    <itemselectionparameter bpelementid="SBAC_PT-1|MD|H-3|a/s|3.MD.3">
      <property name="isstrictmax" value="false" label="Strict maximum flag" />
      <property name="bpweight" value="1" label="Blueprint weight relative to other elements" />
    </itemselectionparameter>
    <itemselectionparameter bpelementid="SBAC_PT-1|MD|I-3|m|3.MD.7d">
      <property name="isstrictmax" value="false" label="Strict maximum flag" />
      <property name="bpweight" value="1" label="Blueprint weight relative to other elements" />
    </itemselectionparameter>
    <itemselectionparameter bpelementid="SBAC_PT-1|MD|J-3|a/s|3.MD.8">
      <property name="isstrictmax" value="false" label="Strict maximum flag" />
      <property name="bpweight" value="1" label="Blueprint weight relative to other elements" />
    </itemselectionparameter>
    <itemselectionparameter bpelementid="SBAC_PT-1|NBT|E-3|a/s|3.NBT.2">
      <property name="isstrictmax" value="false" label="Strict maximum flag" />
      <property name="bpweight" value="1" label="Blueprint weight relative to other elements" />
    </itemselectionparameter>
    <itemselectionparameter bpelementid="SBAC_PT-1|NF|F-3|m|3.NF.3a">
      <property name="isstrictmax" value="false" label="Strict maximum flag" />
      <property name="bpweight" value="1" label="Blueprint weight relative to other elements" />
    </itemselectionparameter>
    <itemselectionparameter bpelementid="SBAC_PT-1|NF|F-3|m|3.NF.3c">
      <property name="isstrictmax" value="false" label="Strict maximum flag" />
      <property name="bpweight" value="1" label="Blueprint weight relative to other elements" />
    </itemselectionparameter>
    <itemselectionparameter bpelementid="SBAC_PT-1|OA|A-3|m|3.OA.3">
      <property name="isstrictmax" value="false" label="Strict maximum flag" />
      <property name="bpweight" value="1" label="Blueprint weight relative to other elements" />
    </itemselectionparameter>
```

```
<itemselectionparameter bpelementid="SBAC_PT-1|OA|C-3|m|3.OA.7">
  <property name="isstrictmax" value="false" label="Strict maximum flag" />
  <property name="bpweight" value="1" label="Blueprint weight relative to other elements" />
</itemselectionparameter>
<itemselectionparameter bpelementid="SBAC_PT-2|MD|B|NA|NA">
  <property name="isstrictmax" value="false" label="Strict maximum flag" />
  <property name="bpweight" value="1" label="Blueprint weight relative to other elements" />
</itemselectionparameter>
<itemselectionparameter bpelementid="SBAC_PT-3|G|F|NA|NA">
  <property name="isstrictmax" value="false" label="Strict maximum flag" />
  <property name="bpweight" value="1" label="Blueprint weight relative to other elements" />
</itemselectionparameter>
<itemselectionparameter bpelementid="SBAC_PT-3|MD|C|NA|NA">
  <property name="isstrictmax" value="false" label="Strict maximum flag" />
  <property name="bpweight" value="1" label="Blueprint weight relative to other elements" />
</itemselectionparameter>
<itemselectionparameter bpelementid="SBAC_PT-3|NF|A|NA|NA">
  <property name="isstrictmax" value="false" label="Strict maximum flag" />
  <property name="bpweight" value="1" label="Blueprint weight relative to other elements" />
</itemselectionparameter>
<itemselectionparameter bpelementid="SBAC_PT-3|OA|D|NA|NA">
  <property name="isstrictmax" value="false" label="Strict maximum flag" />
  <property name="bpweight" value="1" label="Blueprint weight relative to other elements" />
</itemselectionparameter>
<itemselectionparameter bpelementid="SBAC_PT-4|MD|C|NA|NA">
  <property name="isstrictmax" value="false" label="Strict maximum flag" />
  <property name="bpweight" value="1" label="Blueprint weight relative to other elements" />
</itemselectionparameter>
<itemselectionparameter bpelementid="SBAC_PT-4|OA|D|NA|NA">
  <property name="isstrictmax" value="false" label="Strict maximum flag" />
  <property name="bpweight" value="1" label="Blueprint weight relative to other elements" />
</itemselectionparameter>
<itemselectionparameter bpelementid="SBAC_PT-4|OA|E|NA|NA">
  <property name="isstrictmax" value="false" label="Strict maximum flag" />
  <property name="bpweight" value="1" label="Blueprint weight relative to other elements" />
</itemselectionparameter>
<itemselectionparameter bpelementid="G3Math_Claim1_MC/MS">
  <property name="isstrictmax" value="false" label="Strict maximum flag" />
  <property name="bpweight" value="1" label="Blueprint weight relative to other elements" />
  <property name="startinfo" value="0" label="start information" />
  <property name="precisiontarget" value="1" label="precision target" />
  <property name="precisiontargetmetweight" value="0" label="precision target met weight" />
  <property name="precisiontargetnotmetweight" value="0" label="precision target not met weight" />
</itemselectionparameter>
<itemselectionparameter bpelementid="G3Math_Claim2/4">
  <property name="isstrictmax" value="false" label="Strict maximum flag" />
```

```
          <property name="bpweight" value="1" label="Blueprint weight relative to other elements" />
          <property name="startinfo" value="0" label="start information" />
          <property name="precisiontarget" value="1" label="precision target" />
          <property name="precisiontargetmetweight" value="0" label="precision target met weight" />
          <property name="precisiontargetnotmetweight" value="0" label="precision target not met weight" />
        </itemselectionparameter>
        <itemselectionparameter bpelementid="G3Math_DOK2">
          <property name="isstrictmax" value="false" label="Strict maximum flag" />
          <property name="bpweight" value="1" label="Blueprint weight relative to other elements" />
          <property name="startinfo" value="0" label="start information" />
          <property name="precisiontarget" value="1" label="precision target" />
          <property name="precisiontargetmetweight" value="0" label="precision target met weight" />
          <property name="precisiontargetnotmetweight" value="0" label="precision target not met weight" />
        </itemselectionparameter>
      </itemselector>
      <segmentpool>
        <itemgroup maxitems="ALL" maxresponses="ALL">
          <identifier uniqueid="I-187-1793" name="I-187-1793" version="8185" />
          <groupitem itemid="187-1793" groupposition="1" adminrequired="true" responserequired="true" isfieldtest="false" isactive="true" blockid="A" />
        </itemgroup>
        <itemgroup maxitems="ALL" maxresponses="ALL">
          <identifier uniqueid="I-187-1966" name="I-187-1966" version="8185" />
          <groupitem itemid="187-1966" groupposition="1" adminrequired="true" responserequired="true" isfieldtest="false" isactive="true" blockid="A" />
        </itemgroup>
        <itemgroup maxitems="ALL" maxresponses="ALL">
          <identifier uniqueid="I-187-1972" name="I-187-1972" version="8185" />
          <groupitem itemid="187-1972" groupposition="1" adminrequired="true" responserequired="true" isfieldtest="false" isactive="true" blockid="A" />
        </itemgroup>
        <itemgroup maxitems="ALL" maxresponses="ALL">
          <identifier uniqueid="I-187-1973" name="I-187-1973" version="8185" />
          <groupitem itemid="187-1973" groupposition="1" adminrequired="true" responserequired="true" isfieldtest="false" isactive="true" blockid="A" />
        </itemgroup>
        <itemgroup maxitems="ALL" maxresponses="ALL">
          <identifier uniqueid="I-187-1975" name="I-187-1975" version="8185" />
          <groupitem itemid="187-1975" groupposition="1" adminrequired="true" responserequired="true" isfieldtest="false" isactive="true" blockid="A" />
        </itemgroup>
        <itemgroup maxitems="ALL" maxresponses="ALL">
          <identifier uniqueid="I-187-1976" name="I-187-1976" version="8185" />
          <groupitem itemid="187-1976" groupposition="1" adminrequired="true" responserequired="true" isfieldtest="false" isactive="true" blockid="A" />
        </itemgroup>
        <itemgroup maxitems="ALL" maxresponses="ALL">
          <identifier uniqueid="I-187-1978" name="I-187-1978" version="8185" />
          <groupitem itemid="187-1978" groupposition="1" adminrequired="true" responserequired="true" isfieldtest="false" isactive="true" blockid="A" />
        </itemgroup>
        <itemgroup maxitems="ALL" maxresponses="ALL">
          <identifier uniqueid="I-187-1979" name="I-187-1979" version="8185" />
```

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          <groupitem itemid="187-1979" groupposition="1" adminrequired="true" responserequired="true" isfieldtest="false" isactive="true" blockid="A" />
        </itemgroup>
        <itemgroup maxitems="ALL" maxresponses="ALL">
          <identifier uniqueid="I-187-1986" name="I-187-1986" version="8185" />
          <groupitem itemid="187-1986" groupposition="1" adminrequired="true" responserequired="true" isfieldtest="false" isactive="true" blockid="A" />
        </itemgroup>
        <itemgroup maxitems="ALL" maxresponses="ALL">
          <identifier uniqueid="I-187-1987" name="I-187-1987" version="8185" />
          <groupitem itemid="187-1987" groupposition="1" adminrequired="true" responserequired="true" isfieldtest="false" isactive="true" blockid="A" />
        </itemgroup>
        <itemgroup maxitems="ALL" maxresponses="ALL">
          <identifier uniqueid="I-187-1988" name="I-187-1988" version="8185" />
          <groupitem itemid="187-1988" groupposition="1" adminrequired="true" responserequired="true" isfieldtest="false" isactive="true" blockid="A" />
        </itemgroup>
        <itemgroup maxitems="ALL" maxresponses="ALL">
          <identifier uniqueid="I-187-1991" name="I-187-1991" version="8185" />
          <groupitem itemid="187-1991" groupposition="1" adminrequired="true" responserequired="true" isfieldtest="false" isactive="true" blockid="A" />
        </itemgroup>
        <itemgroup maxitems="ALL" maxresponses="ALL">
          <identifier uniqueid="I-187-1996" name="I-187-1996" version="8185" />
          <groupitem itemid="187-1996" groupposition="1" adminrequired="true" responserequired="true" isfieldtest="false" isactive="true" blockid="A" />
        </itemgroup>
        <itemgroup maxitems="ALL" maxresponses="ALL">
          <identifier uniqueid="I-187-2001" name="I-187-2001" version="8185" />
          <groupitem itemid="187-2001" groupposition="1" adminrequired="true" responserequired="true" isfieldtest="false" isactive="true" blockid="A" />
        </itemgroup>
        <itemgroup maxitems="ALL" maxresponses="ALL">
          <identifier uniqueid="I-187-2015" name="I-187-2015" version="8185" />
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