



BMAT™
Bruininks Motor Ability Test
Comprehensive Form Report
Brett D. Bruininks, PhD, and Robert H. Bruininks, PhD

Name: Jane Sample
ID: 952681
Gender: Female
Birth Date: 04/03/1934
Test Date: 02/06/2013
Age: 78
Preferred Drawing Hand: Right
Preferred Throwing Hand/Arm: Right
Preferred Foot/Leg: Right
Examiner: Examiner, Sally
Form: Comprehensive Form
Norms Used: Female Norms
Confidence Level: 90%



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[1.0 / RE1 / QG1]

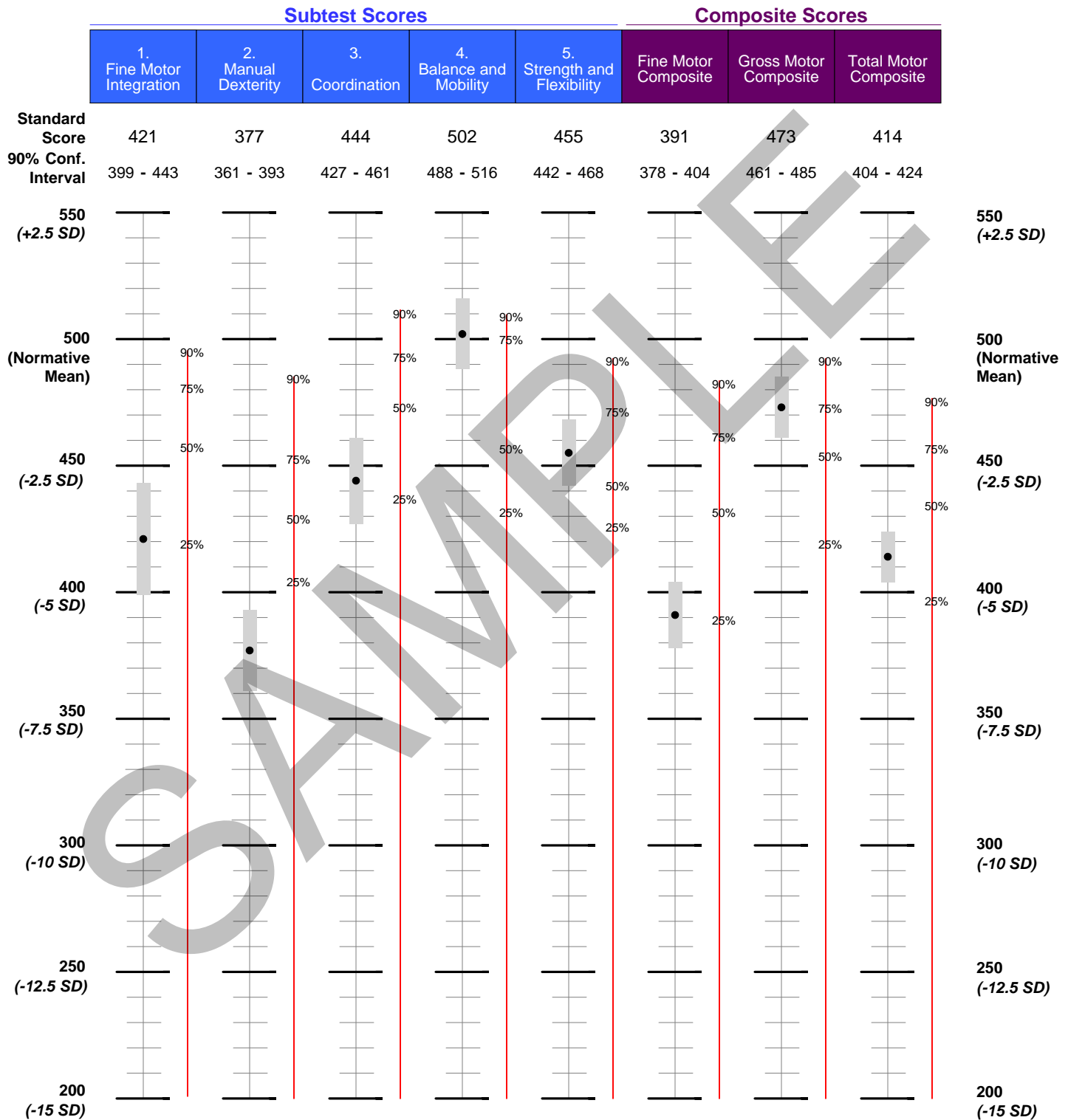
MOTOR SCORE SUMMARY

Female Norms

Subtest/Composite	Total Point Score	Sum of Subtest Standard Scores	Standard Score	Confidence Interval: 90%		Percentile Rank
				Band	Interval	
Fine Motor Integration	26	N/A	421	± 22	399 - 443	1%
Manual Dexterity	13	N/A	377	± 16	361 - 393	<1%
Fine Motor Composite		798	391	± 13	378 - 404	<1%
Coordination	16	N/A	444	± 17	427 - 461	2%
Balance and Mobility	25	N/A	502	± 14	488 - 516	44%
Strength and Flexibility	28	N/A	455	± 13	442 - 468	2%
Gross Motor Composite		957	473	± 12	461 - 485	9%
Total Motor Composite		2199	414	± 10	404 - 424	<1%

- = Subtest not administered/Composite not valid

SCORE PROFILE



Each vertical line shows the range of scores obtained by the lowest-scoring 25%, the lowest-scoring 50%, the lowest-scoring 75%, and the lowest-scoring 90% of the BMAT Motor-Impaired Comparison Group, using the combined-gender norms. See the BMAT manual for details.

PAIRWISE COMPARISONS

Composite Comparison	Standard Score Difference	Statistical Significance Level	Frequency of Difference
Fine Motor Composite < Gross Motor Composite	82	<.01	<1%
Subtest Comparisons	Standard Score Difference	Statistical Significance Level	Frequency of Difference
Fine Motor Integration > Manual Dexterity	44	<.01	<10%
Fine Motor Integration < Coordination	23	NS	NI
Fine Motor Integration < Balance and Mobility	81	<.01	<1%
Fine Motor Integration < Strength and Flexibility	34	<.05	NI
Manual Dexterity < Coordination	67	<.01	<5%
Manual Dexterity < Balance and Mobility	125	<.01	<1%
Manual Dexterity < Strength and Flexibility	78	<.01	<1%
Coordination < Balance and Mobility	58	<.01	<5%
Coordination < Strength and Flexibility	11	NS	NI
Balance and Mobility > Strength and Flexibility	47	<.01	<5%

NS = Not Significant

NI = Not Infrequent

NARRATIVE REPORT

The Bruininks Motor Ability Test (BMAT) is an individually administered test of gross and fine motor skills for adults ages 40 and older. It assesses an adult's motor abilities related to improvement in physical functioning and/or requirements for activities of daily living (ADLs) by using a subtest and composite structure that highlights motor performance in the broad functional areas of stability, mobility, strength, coordination, and object manipulation. There are three composites: Fine Motor, Gross Motor, and Total Motor. The Total Motor composite comprises all five subtests and provides the most reliable measure of overall motor proficiency.

The BMAT provides derived scores that will assist you in interpreting performance. Standard scores (mean = 500, standard deviation = 20), confidence intervals, and percentile ranks are used to describe composite performance.

Jane Sample was administered the Comprehensive Form of the BMAT by Examiner, Sally. Jane was 78 years old on the assessment date of 02/06/2013. This report describes Jane's motor proficiency in relation to a representative national sample of females her age, provides an analysis of Jane's comparative strengths and weaknesses, and summarizes her performance level on each subtest.

During the testing session, Jane's attention was observed to be Good, her fluidity of movement was Good, her effort was Excellent, and her understanding of the activities was Excellent.

Jane's scores on the Total Motor composite, Fine Motor and Gross Motor composites, and five subtests are presented below. When a standard score is initially reported, the corresponding 90% confidence interval is presented in parentheses.

Total Motor Composite

Jane's Total Motor composite standard score of 414 (404-424) summarizes her overall motor proficiency. Jane's standard score corresponds to a percentile rank of <1, meaning that Jane's standard score is higher than <1 percent of the population of females Jane's age in the norm sample.

The Fine Motor composite and the Gross Motor composite are discussed below.

Fine Motor Composite

This composite measures control of fingers and hands in concert with visual stimuli, and it assesses bimanual coordination with small objects.

Jane's Fine Motor composite standard score is 391 (378-404). This corresponds to a percentile rank of <1.

Jane received a score of 421 (399-443) on the Fine Motor Integration subtest. This corresponds to a percentile rank of 1.

Jane received a score of 377 (361-393) on the Manual Dexterity subtest. This corresponds to a percentile rank of <1.

Coordination Subtest

Jane received a score of 444 (427-461) on the Coordination subtest. This corresponds to a percentile rank of 2.

Gross Motor Composite

This composite measures motor control skills that are necessary for standing and walking, and it measures strength and endurance of muscle groups in the legs, torso, arms and hands.

Jane's Gross Motor composite standard score is 473 (461-485). This corresponds to a percentile rank of 9.

Jane received a score of 502 (488-516) on the Balance and Mobility subtest. This corresponds to a percentile rank of 44.

Jane received a score of 455 (442-468) on the Strength and Flexibility subtest. This corresponds to a percentile rank of 2.

Fine Motor and Gross Motor Composite Comparisons

Comparisons of the Fine Motor and Gross Motor composites can provide insight into an examinee's personal strengths and weaknesses. The following paragraph describes the differences between Jane's Fine Motor and Gross Motor composite standard scores.

Jane's Gross Motor standard score of 473 is significantly greater at the $<.01$ level than her Fine Motor score of 391. A difference of this size can be considered uncommon because it occurs in less than 1% of the norm sample.

Subtest Comparisons

Comparison of BMAT subtest standard scores can provide insight into an examinee's personal strengths and weaknesses.

Jane's Fine Motor Integration standard score of 421 is significantly greater at the $<.01$ level than her Manual Dexterity standard score of 377. A difference of this size can be considered uncommon because it occurs in less than 10% of the norm sample.

Jane's Fine Motor Integration standard score of 421 is not significantly different than her Coordination standard score of 444.

Jane's Fine Motor Integration standard score of 421 is significantly lower at the $<.01$ level than her Balance and Mobility standard score of 502. A difference of this size can be considered uncommon because it occurs in less than 1% of the norm sample.

Jane's Fine Motor Integration standard score of 421 is significantly lower at the $<.05$ level than her Strength and Flexibility standard score of 455. A difference of this size can be considered common because it occurs in more than 10% of the norm sample.

Jane's Manual Dexterity standard score of 377 is significantly lower at the $<.01$ level than her Coordination standard score of 444. A difference of this size can be considered uncommon because it occurs in less than 5% of the norm sample.

Jane's Manual Dexterity standard score of 377 is significantly lower at the $<.01$ level than her Balance and Mobility standard score of 502. A difference of this size can be considered uncommon because it occurs in less than 1% of the norm sample.

Jane's Manual Dexterity standard score of 377 is significantly lower at the $<.01$ level than her Strength and Flexibility standard score of 455. A difference of this size can be considered uncommon because it occurs in less than 1% of the norm sample.

Jane's Coordination standard score of 444 is significantly lower at the $<.01$ level than her Balance and Mobility standard score of 502. A difference of this size can be considered uncommon because it occurs in less than 5% of the norm sample.

Jane's Coordination standard score of 444 is not significantly different than her Strength and Flexibility standard score of 455.

Jane's Balance and Mobility standard score of 502 is significantly greater at the $<.01$ level than her Strength and Flexibility standard score of 455. A difference of this size can be considered uncommon because it occurs in less than 5% of the norm sample.

Personal Strengths and Weaknesses

A personal strength or weakness is indicated when an examinee's Fine Motor and Gross Motor composite standard score is either substantially higher or substantially lower than her other motor-area composite standard score. For Jane, the Gross Motor composite represents a personal strength and the Fine Motor composite represents a personal weakness.

ITEM RAW SCORE SUMMARY

Subtest 1: Fine Motor Integration

Subtest	Item	Trial 1	Trial 2
Fine Motor Integration	1. Filling in a Circle	0	
	2. Drawing a Line Through a Path--Crooked	3	
	3. Drawing a Line Through a Path--Curved	4	
	4. Copying a Shape	5	
	5. Marking Shapes	22.0	26.0
	6. Folding Paper	3	
	7. Cutting out a Shape	12	

* = Did Not Attempt

- = Not administered

Subtest 2: Manual Dexterity

Subtest	Item	Trial 1	Trial 2
Manual Dexterity	1. Transferring Pennies--Preferred Hand	5	6
	2. Transferring Pennies--Both Hands Simultaneously	4	4
	3. Stringing With Blocks in Preferred Hand	2	4
	4. Stringing With Blocks in Nonpreferred Hand	2	3
	5. Sewing With a Sewing Board	44.0	42.4

* = Did Not Attempt

- = Not administered

Subtest 3: Coordination

Subtest	Item	Trial 1	Trial 2
Coordination	1. Touching Nose with Index Fingers--Eyes Closed	10	-
	2. Tapping Feet and Fingers--Same Sides Synchronized	10	-
	3. Dropping and Catching a Ball--Both Hands	3	
	4. Catching a Tossed Ball--Both Hands	1	
	5. Catching a Tossed Ball--One Hand	0	
	6. Tossing a Ball	4	

* = Did Not Attempt

- = Not administered

Subtest 4: Balance and Mobility

Subtest	Item	Trial 1	Trial 2
Balance and Mobility	1. Standing With Feet Apart on a Line--Eyes Open	10.0	-
	2. Standing With Feet Apart on a Line--Eyes Closed	4.0	8.0
	3. Walking Forward on a Line	8	-
	4. Standing on One Leg on a Line--Eyes Open	1.5	2.1
	5. Lateral Step on a Line	16	-
	6. Up/Down Stepping	8	-
	7. Walking Alternating Directions	25.0	-

* = Did Not Attempt
- = Not administered

Subtest 5: Strength and Flexibility

Subtest	Item	Trial 1	Trial 2	Trial 3
Strength and Flexibility	1. Sitting Flexibility	10	11	11
	2. Grip Strength--Preferred Hand	25		
	3. Grip Strength--Nonpreferred Hand	222		
	4. Sit/Stand	11		
	5. Seated Bicep Curls	3		
	6. Seated Front Shoulder Raises	1		
	7. Wall Push-ups	4		

* = Did Not Attempt
- = Not administered

BACKGROUND AND BEHAVIORAL OBSERVATIONS

Were accommodations made for physical impairments?

No accommodations were needed for this assessment.

Examinee's Performance Rating

Attention:	Good
Fluidity of Movement:	Good
Effort:	Excellent
Understanding:	Excellent

Notes & Observations

End of Report

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