

Summary Report: BASI Survey - Math Skills

Achilles N. Bardos, PhD

Name:	Achilles B.	Age:	30
Id:	123123123	Years of Education:	14
Gender:	Male	Test Date:	12/20/2020
Birth date:	08/13/1990	Report Date:	01/05/2021

Total and Skill Areas	SS	Confidence Interval	Percentile Rank	Performance	GE	AE
Total Math Score	122	112 - 128	92	Superior	12.9	13-10
Math Computation	14			Superior		
Math Application	14			Superior		

SS = Standard Score (Total Math Mean 100; SD=15) (Skill Area Mean 10; SD=3)

GE = Grade Equivalent

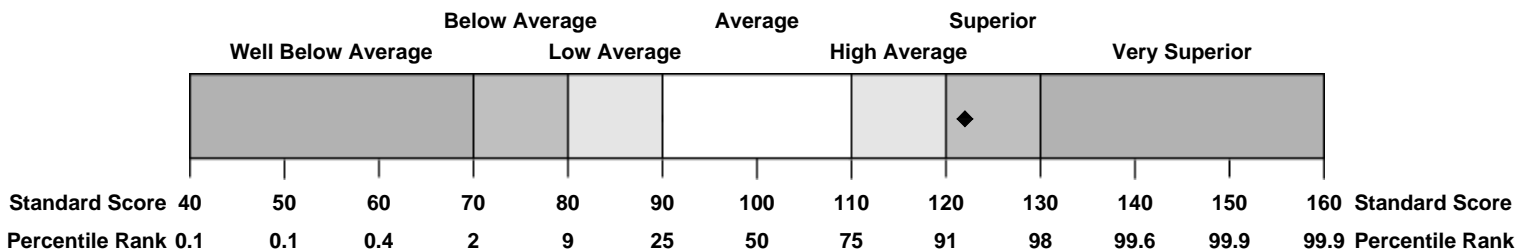
AE = Age Equivalent

Achilles' Math Skills Total score is in the superior range (SS = 122). His score is at the 92nd percentile, which indicates that his performance is equal to or better than that of 92 % of examinees of a similar age in the general population. It is likely that Achilles' true Math Skills Total score is in the range of 112 (High Average) to 128 (Superior).

Achilles' math computation skills performance is in the superior range (Math Computation SS = 14). Math computation questions involve applying the four basic arithmetic operations to whole numbers, fractions, and decimals and simplifying numerical expressions and algebraic equations. His score in the math application area is in the superior range (Math Application SS = 14). Math application questions involve solving word problems using the basic arithmetic operations, reading and interpreting data presented in graphs and tables, measuring shapes and determining volumes, and demonstrating knowledge of measurement principles as they relate to length, weight, perimeter, and money.

A detailed presentation of Achilles' response to each Math Skills item is presented on the following pages. This item listing can be used to identify the specific skills he has mastered and areas in which he might need additional help. Please use the following chart if you wish to communicate the findings of this assessment.

BASI Math Skills Total



Item Number	Learning Objective Measured	Response
Math Computation		
1	Finds the sum of two or more whole numbers with or without regrouping	Correct
2	Finds the difference between two or more whole numbers with or without regrouping	Correct
3	Finds the product of a whole number of up to three-digits and a one-digit whole number with or without regrouping	Correct
4	Finds the quotient without a remainder	Correct
5	Compares a pictured pair of fractions using $<$, $>$, or $=$	Correct
6	Finds the difference of a pair of like fractions	Correct
7	Finds the sum of three decimal numbers to the tenths place	Correct
8	Finds the difference between two decimal numbers to the hundredths place with or without regrouping	Correct
17	Finds the quotient of two whole numbers	Correct
18	Finds the sum of three whole numbers	Correct
19	Finds the sum of decimals	Correct
20	Finds a quotient containing three or more decimal places	Correct
21	Finds the product of fractions and whole numbers	Correct
22	Finds the difference between mixed numbers and fractions	Correct
23	Determines the square root of a perfect square	No Response
24	Finds the cubes of positive whole numbers through multiplication	Correct
25	Uses the order of operations to simplify and solve number sentences	Correct
26	Uses the order of operations to simplify and solve number sentences	Correct
27	Solves simple algebraic equations	Correct
28	Solves algebraic equations using the correct order of operations	Correct
29	Simplifies algebraic expressions with polynomials	Correct
43	Converts fractions	Correct
44	Converts decimals into percents	Correct
45	Uses the order of operations to simplify and solve number sentences	Correct
46	Converts a percent into a fraction	Correct
47	Simplifies algebraic expressions	Incorrect
48	Solves linear equations with one variable	Incorrect
49	Simplifies algebraic expressions	Incorrect
50	Finds the difference between two mixed fractions	Correct
51	Finds the sum, difference, or product of both positive and negative integers	Correct
52	Uses the order of operations to simplify and solve number sentences	Incorrect
53	Simplifies numerical expressions using absolute value signs	Correct
54	Solves linear equations	Incorrect

Item Number	Learning Objective Measured	Response
Math Application		
9	Solves one-step word problems using whole numbers	Correct
10	Solves word problems involving fractions	Correct
11	Solves word problems involving decimals	Correct
12	Solves word problems involving measurement	Correct
13	Locates decimals on a number line	Correct
14	Calculates perimeter	Correct
15	Chooses the correct metric unit of measure for the weight of a pictured object	Correct
16	Interprets data in tables	Correct
30	Solves multi-step word problems with whole numbers	Correct
31	Solves multi-step word problems with whole numbers	Correct
32	Solves word problems involving proportions	Correct
33	Solves word problems involving proportions	Correct
34	Solves word problems involving percents	Correct
35	Solves word problems involving percents	Correct
36	Identifies coordinates of points on the four-quadrant coordinate plane	Correct
37	Translates a sentence into an algebraic equation	Incorrect
38	Computes the range of a set of numbers	Correct
39	Determines the probability of the outcome of events represented as a fraction	Correct
40	Solves word problems involving percents	Correct
41	Calculates the area of a polygon	Correct
42	Uses the Pythagorean theorem to solve a word problem	Correct
55	Solves a multi-step word problem	Correct
56	Solves a multi-step word problem	Correct
57	Solves a multi-step word problem	No Response
58	Solves a multi-step word problem using decimals	No Response
59	Computes the range of data presented in a graph	No Response
60	Solves a multi-step word problem involving units of measurement	No Response
61	Solves a multi-step word problem involving units of measurement	No Response
62	Solves a word problem involving exponents	No Response
63	Uses inverse properties in algebraic equations	No Response
64	Applies knowledge of shapes to math problems	No Response
65	Finds the solution set for an inequality	No Response
66	Interprets data presented in a chart	No Response
67	Determines the slope of a line	No Response
68	Finds the length of altitudes and angle bisectors within triangles	No Response

End of Math Skills Item Responses and Report.