

**MMLA Mathematics Assessment Items  
Answer Key**

**Multiple Choice**

<b>Item No.</b>	<b>Correct Answer</b>	<b>GLCE</b>	<b>MEAP Code</b>
1	D	N.ME.03.01	core
2	D	N.ME.03.01	core
3	A	N.ME.03.01	core
4	C	N.ME.03.01	core
5	A	N.ME.03.01	core
6	B	N.ME.03.01	core
7	C	N.ME.03.01	core
8	B	N.ME.03.02	core
9	A	N.ME.03.02	core
10	D	N.ME.03.02	core
11	C	N.ME.03.02	core
12	A	N.ME.03.02	core
13	B	N.ME.03.02	core
14	A	N.ME.03.04	NASL
15	C	N.ME.03.04	NASL
16	B	N.ME.03.05	ext
17	B	N.ME.03.05	ext
18	A	N.ME.03.05	ext
19	A	N.ME.03.05	ext
20	B	N.ME.03.05	ext
21	A	N.FL.03.06	core
22	B	N.FL.03.06	core
23	D	N.FL.03.06	core
24	C	N.FL.03.06	core
25	A	N.FL.03.06	core

26	C	N.FL.03.06	core
27	A	N.FL.03.06	core
28	A	N.FL.03.06	core
29	A	N.FL.03.07	core
30	A	N.FL.03.07	core
31	B	N.FL.03.07	core
32	A	N.FL.03.07	core
33	B	N.FL.03.07	core
34	C	N.FL.03.07	core
35	B	N.MR.03.09	core
36	A	N.MR.03.09	core
37	D	N.MR.03.09	core
38	D	N.MR.03.09	core
39	C	N.MR.03.09	core
40	D	N.MR.03.09	core
41	C	N.MR.03.10	core
42	C	N.MR.03.10	core
43	A	N.MR.03.10	core
44	B	N.MR.03.10	core
45	A	N.FL.03.11	core
46	C	N.FL.03.11	core
47	C	N.FL.03.11	core
48	A	N.FL.03.11	core
49	C	N.FL.03.11	core
50	B	N.FL.03.11	core
51	C	N.FL.03.11	core
52	C	N.FL.03.11	core
53	C	N.FL.03.11	core
54	B	N.FL.03.11	core
55	A	N.FL.03.11	core

56	C	N.FL.03.11	core
57	D	N.FL.03.11	core
58	D	N.FL.03.11	core
59	C	N.MR.03.12	fut
60	B	N.MR.03.12	fut
61	C	N.FL.03.13	NASL
62	C	N.FL.03.13	NASL
63	B	N.MR.03.14	fut
64	C	N.MR.03.14	fut
65	A	N.MR.03.15	core
66	B	N.MR.03.15	core
67	C	N.MR.03.15	core
68	B	N.MR.03.15	core
69	C	N.MR.03.15	core
70	C	N.ME.03.16	core
71	A	N.ME.03.17	ext
72	B	N.ME.03.17	ext
73	C	N.ME.03.17	ext
74	A	N.ME.03.18	fut
75	B	N.ME.03.19	ext
76	C	N.MR.03.20	ext
77	A	N.MR.03.20	ext
78	A	N.ME.03.21	core
79	A	N.ME.03.21	core
80	C	N.ME.03.21	core
81	B	N.ME.03.21	core
82	D	N.ME.03.21	core
83	B	M.UN.03.01	core
84	D	M.UN.03.01	core
85	B	M.UN.03.01	core

86	D	M.UN.03.02	core
87	C	M.UN.03.02	core
88	B	M.UN.03.02	core
89	C	M.UN.03.02	core
90	C	M.UN.03.02	core
91	C	M.UN.03.03	core
92	B	M.UN.03.03	core
93	A	M.UN.03.03	core
94	B	M.UN.03.04	core
95	C	M.UN.03.04	core
96	A	M.UN.03.04	core
97	A	M.UN.03.04	core
98	C	M.UN.03.04	core
99	C	M.UN.03.05	core
100	D	M.UN.03.05	core
101	B	M.UN.03.06	ext
102	D	M.UN.03.07	ext
103	B	M.UN.03.08	ext
104	A	M.PS.03.10	fut
105	B	M.PS.03.10	fut
106	A	M.PS.03.10	fut
107	B	M.PS.03.10	fut
108	B	M.PS.03.10	fut
109	C	M.PS.03.10	fut
110	C	M.PS.03.10	fut
111	B	M.PS.03.10	fut
112	C	M.PS.03.10	fut
113	B	M.PS.03.10	fut
114	D	M.PS.03.11	core
115	B	M.PS.03.11	core

116	C	M.PS.03.11	core
117	B	M.PS.03.11	core
118	C	M.PS.03.11	core
119	A	M.PS.03.11	core
120	C	M.PS.03.11	core
121	B	M.PS.03.11	core
122	D	M.PS.03.11	core
123	C	M.PS.03.11	core
124	C	M.PS.03.12	ext
125	B	M.PS.03.12	ext
126	B	M.PS.03.12	ext
127	B	M.PS.03.12	ext
128	B	M.PS.03.12	ext
129	C	M.PS.03.13	ext
130	A	G.GS.03.04	ext
131	A	G.SR.03.05	core
132	D	G.SR.03.05	core
133	B	G.GS.03.06	core
134	B	G.GS.03.06	core
135	D	G.GS.03.06	core
136	D	G.GS.03.06	core
137	C	D.RE.03.01	ext
138	C	D.RE.03.01	ext
139	B	D.RE.03.02	core
140	B	D.RE.03.02	core
141	C	D.RE.03.02	core
142	D	D.RE.03.02	core
143	B	D.RE.03.03	core
144	B	D.RE.03.03	core
145	B	D.RE.03.03	core

## Open Ended

Item No.	Correct Answer	GLCE	MEAP Code
1	24; 18; 40; 8; 8; 9	N.FL.03.11	core
2	There would be 50 pennies in each bag. Explanations will vary, but they should be accurate.	N.FL.03.13	NASL
3	4000. Explanations will vary, but they should be accurate.	N.FL.03.13	NASL
4	420. Explanations will vary, but they should be accurate.	N.FL.03.13	NASL
5	This problem is relatively open ended. It does not specify how many children can ride in each car, only that there are 5 cars and 23 children. Therefore, any answer is appropriate that uses 5 cars and includes all 23 students. For example, 4 cars could carry 5 students (20), and 1 could carry 3. Or 3 cars could carry 5 (15) students and 2 could carry 4 (8). Students could put any number of children in any of the cars, as long as all 5 parents take at least 1 student and the total equals 23.	N.MR.03.14	fut
6	No, they cannot all ride at the same time. 5 carts that hold 4 people carry a maximum of 20 people. So 3 would be left over.	N.MR.03.14	fut
7	$\frac{2}{4}$ is at the second tick mark from zero. $\frac{6}{8}$ is at the third tick mark, equivalent to $\frac{3}{4}$ . $\frac{1}{4}$ is at the first tick mark.	N.ME.03.18	fut
8	$\frac{1}{2}$ is at the largest mark between 0 and 1. $\frac{1}{4}$ is halfway between 0 and $\frac{1}{2}$ , and $\frac{3}{4}$ is halfway between $\frac{1}{2}$ and 1.	N.ME.03.18	fut
9	Students' measurements should be correct to the nearest $\frac{1}{2}$ inch and expressed in feet and inches.	M.UN.03.02	core
10	90 feet of fence. $30 + 30 + 15 + 15$	M.PS.03.13	ext
11	90 square feet.	M.PS.03.13	ext
12	194 inches.	M.PS.03.13	ext
13	The brownies could be cut in several different ways to make six of equal size. One side could be cut in half and the other side cut in thirds, resulting in 6" x 4" brownies. Or one side could be cut in sixths, resulting in 12" x 2" brownies. He could also cut out four 8" x 3" brownies and two 4" x 6" brownies. Each brownie has to be 24 square inches, since the total area of the pan is 144 square inches.	M.PS.03.13	ext

14 Students could draw a parallelogram, rhombus or trapezoid, but not a square or rectangle. They could also draw a figure with four curved sides.

G.GS.03.04 ext

15 Student drawings should show two right triangles on the ends of the parallelogram, and the square in the middle, like this:

G.SR.03.05 core

