

# 9-12 Montessori Math Story Problem Record for \_\_\_\_\_

(/= card partially attempted;  $\wedge$ = whole card attempted with error;  $\Delta$  = whole card completed successfully)

Drawer number and title	Card letter	Date mastered
1. Whole number numeration .....	a ..... b ..... c ..... d ..... e ..... f ..... g ..... h ..... i ..... j .....	
2. Multiplication using "magic zeros" .....	a ..... b ..... c ..... d ..... e ..... f ..... g ..... h ..... i ..... j .....	
3. Multiplication with a 1-digit multiplier .....	a ..... b ..... c ..... d ..... e ..... f ..... g ..... h ..... i ..... j .....	
4. Multiplication with a 2-digit multiplier .....	a ..... b ..... c ..... d ..... e ..... f ..... g ..... h ..... i ..... j .....	
5. Multiplication with a 3-digit multiplier .....	a ..... b ..... c ..... d ..... e ..... f ..... g ..... h ..... i ..... j .....	
6. Multiplication with a 4-digit multiplier .....	a ..... b ..... c ..... d ..... e ..... f ..... g ..... h ..... i ..... j .....	
7. Division with a 1-digit divisor .....	a ..... b ..... c ..... d ..... e ..... f ..... g ..... h ..... i ..... j .....	
8. Division with a 2-digit divisor .....	a ..... b ..... c ..... d ..... e ..... f ..... g ..... h ..... i ..... j .....	
9. Division with a 3-digit divisor .....	a ..... b ..... c ..... d ..... e ..... f ..... g ..... h ..... i ..... j .....	
10. Division with a 4-digit divisor .....	a ..... b ..... c ..... d ..... e ..... f ..... g ..... h ..... i ..... j .....	
11. Divisibility .....	a ..... b ..... c ..... d ..... e ..... f ..... g ..... h ..... i ..... j .....	
12. Finding all factors .....	a ..... b ..... c ..... d ..... e ..... f ..... g ..... h ..... i ..... j .....	
13. Finding prime factorization .....	a ..... b ..... c ..... d ..... e ..... f ..... g ..... h ..... i ..... j .....	
14. Finding the greatest common factor .....	a ..... b ..... c ..... d ..... e ..... f ..... g ..... h ..... i ..... j .....	
15. Finding multiples .....	a ..... b ..... c ..... d ..... e ..... f ..... g ..... h ..... i ..... j .....	
16. Finding the least common multiple .....	a ..... b ..... c ..... d ..... e ..... f ..... g ..... h ..... i ..... j .....	
17. Equivalent fractions .....	a ..... b ..... c ..... d ..... e ..... f ..... g ..... h ..... i ..... j .....	
18. Changing improper fractions to mixed numbers .....	a ..... b ..... c ..... d ..... e ..... f ..... g ..... h ..... i ..... j .....	
19. Reducing fractions and mixed numbers .....	a ..... b ..... c ..... d ..... e ..... f ..... g ..... h ..... i ..... j .....	
20. Comparing and ordering fractions .....	a ..... b ..... c ..... d ..... e ..... f ..... g ..... h ..... i ..... j .....	
21. Addition and subtraction of fractions with same denominators .....	a ..... b ..... c ..... d ..... e ..... f ..... g ..... h ..... i ..... j .....	
22. Addition and subtraction of mixed numbers with same denominators .....	a ..... b ..... c ..... d ..... e ..... f ..... g ..... h ..... i ..... j .....	
23. Addition and subtraction of fractions with different denominators .....	a ..... b ..... c ..... d ..... e ..... f ..... g ..... h ..... i ..... j .....	
24. Addition and subtraction of mixed numbers with different denominators .....	a ..... b ..... c ..... d ..... e ..... f ..... g ..... h ..... i ..... j .....	
25. Fractions times whole numbers .....	a ..... b ..... c ..... d ..... e ..... f ..... g ..... h ..... i ..... j .....	
26. Whole numbers times fractions .....	a ..... b ..... c ..... d ..... e ..... f ..... g ..... h ..... i ..... j .....	
27. Fractions times fractions .....	a ..... b ..... c ..... d ..... e ..... f ..... g ..... h ..... i ..... j .....	
28. Mixed numbers times mixed numbers .....	a ..... b ..... c ..... d ..... e ..... f ..... g ..... h ..... i ..... j .....	
29. Finding fractional parts .....	a ..... b ..... c ..... d ..... e ..... f ..... g ..... h ..... i ..... j .....	
30. Fractions divided by whole numbers .....	a ..... b ..... c ..... d ..... e ..... f ..... g ..... h ..... i ..... j .....	
31. Whole numbers divided by fractions .....	a ..... b ..... c ..... d ..... e ..... f ..... g ..... h ..... i ..... j .....	
32. Fractions divided by fractions .....	a ..... b ..... c ..... d ..... e ..... f ..... g ..... h ..... i ..... j .....	
33. Mixed numbers divided by mixed numbers .....	a ..... b ..... c ..... d ..... e ..... f ..... g ..... h ..... i ..... j .....	
34. Decimal numeration .....	a ..... b ..... c ..... d ..... e ..... f ..... g ..... h ..... i ..... j .....	
35. Changing fractions to decimals .....	a ..... b ..... c ..... d ..... e ..... f ..... g ..... h ..... i ..... j .....	
36. Changing decimals to fractions .....	a ..... b ..... c ..... d ..... e ..... f ..... g ..... h ..... i ..... j .....	
37. Comparing and ordering fractions .....	a ..... b ..... c ..... d ..... e ..... f ..... g ..... h ..... i ..... j .....	
38. Adding and subtracting decimals .....	a ..... b ..... c ..... d ..... e ..... f ..... g ..... h ..... i ..... j .....	
39. Decimals times powers of ten .....	a ..... b ..... c ..... d ..... e ..... f ..... g ..... h ..... i ..... j .....	
40. Decimals times whole numbers .....	a ..... b ..... c ..... d ..... e ..... f ..... g ..... h ..... i ..... j .....	
41. Decimals times decimals .....	a ..... b ..... c ..... d ..... e ..... f ..... g ..... h ..... i ..... j .....	
42. Decimals divided by powers of ten .....	a ..... b ..... c ..... d ..... e ..... f ..... g ..... h ..... i ..... j .....	
43. Decimals divided by whole numbers .....	a ..... b ..... c ..... d ..... e ..... f ..... g ..... h ..... i ..... j .....	

44. Whole numbers divided by decimals	a	b	c	d	e	f	g	h	i	j
45. Decimals divided by decimals	a	b	c	d	e	f	g	h	i	j
46. Equivalence of fractions, decimals and percents	a	b	c	d	e	f	g	h	i	j
47. Operations with fractions and decimals	a	b	c	d	e	f	g	h	i	j
48. Percents: finding the 'portion'	a	b	c	d	e	f	g	h	i	j
49. Percents: finding the 'percent'	a	b	c	d	e	f	g	h	i	j
50. Percents: finding the 'whole'	a	b	c	d	e	f	g	h	i	j
51. Ratios and proportions	a	b	c	d	e	f	g	h	i	j
52. Writing exponents	a	b	c	d	e	f	g	h	i	j
53. Solving exponents	a	b	c	d	e	f	g	h	i	j
54. Simplifying exponents	a	b	c	d	e	f	g	h	i	j
55. Using scientific notation	a	b	c	d	e	f	g	h	i	j
56. Binomials times monomials	a	b	c	d	e	f	g	h	i	j
57. Trinomials times monomials	a	b	c	d	e	f	g	h	i	j
58. Binomials times binomials	a	b	c	d	e	f	g	h	i	j
59. Trinomials times trinomials	a	b	c	d	e	f	g	h	i	j
60. Passage from one square to another square	a	b	c	d	e	f	g	h	i	j
61. Squares of binomials	a	b	c	d	e	f	g	h	i	j
62. Squares of trinomials	a	b	c	d	e	f	g	h	i	j
63. Squares of quadrinomials	a	b	c	d	e	f	g	h	i	j
64. Binomial square roots	a	b	c	d	e	f	g	h	i	j
65. Trinomial square roots	a	b	c	d	e	f	g	h	i	j
66. Quadrinomial square roots	a	b	c	d	e	f	g	h	i	j
67. Passage from one cube to another cube	a	b	c	d	e	f	g	h	i	j
68. Cubes of binomials	a	b	c	d	e	f	g	h	i	j
69. Cubes of trinomials	a	b	c	d	e	f	g	h	i	j
70. Cubes of quadrinomials	a	b	c	d	e	f	g	h	i	j
71. Binomial cube roots	a	b	c	d	e	f	g	h	i	j
72. Trinomial cube roots	a	b	c	d	e	f	g	h	i	j
73. Quadrinomial cube roots	a	b	c	d	e	f	g	h	i	j
74. Number lines and coordinate grids	a	b	c	d	e	f	g	h	i	j
75. Adding and subtracting integers	a	b	c	d	e	f	g	h	i	j
76. Multiplying and dividing integers	a	b	c	d	e	f	g	h	i	j
77. Writing equations	a	b	c	d	e	f	g	h	i	j
78. Solving for a variable: one step, addition or subtraction	a	b	c	d	e	f	g	h	i	j
79. Solving for a variable: one step, multiplication or division	a	b	c	d	e	f	g	h	i	j
80. Order of operations	a	b	c	d	e	f	g	h	i	j
81. Solving for a variable (two steps)	a	b	c	d	e	f	g	h	i	j
82. Solving equations: variable occurs more than once	a	b	c	d	e	f	g	h	i	j
83. Evaluating expressions	a	b	c	d	e	f	g	h	i	j
84. Solving and graphing functions	a	b	c	d	e	f	g	h	i	j
85. Rounding and estimating with integers	a	b	c	d	e	f	g	h	i	j
86. Rounding and estimating with rational numbers	a	b	c	d	e	f	g	h	i	j
87. Money: discounts and interest	a	b	c	d	e	f	g	h	i	j
88. Money: taxes and commissions	a	b	c	d	e	f	g	h	i	j
89. Data analysis	a	b	c	d	e	f	g	h	i	j
90. Probability	a	b	c	d	e	f	g	h	i	j