

MCAS Grade 3 Mathematics

Approved Blank Supplemental Reference Sheet for Students with Accommodation A9

INSTRUCTIONS:

The following supplemental reference sheet is **ONLY** for students who have accommodation A9 listed in their IEP or 504 plan.

Before testing:

Schools should print out the following pages and distribute to students who have accommodation A9 so that students can practice using the supplemental reference sheet. Schools should also remind students that during testing they may only use a reference sheet that has not yet been filled in.

During testing:

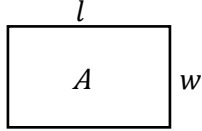
At the start of each test session, test administrators should check that that they are only providing supplemental reference sheets that have not already been filled in, and that they are providing them only to students who have accommodation A9 in their IEP or 504 plan.

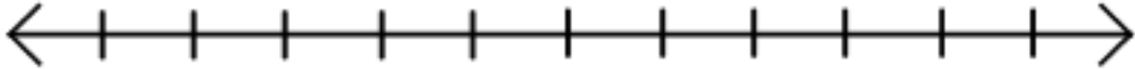
Test administrators should remind students that they may not use any sheets that were filled in previously, nor any other reference materials or notes. Results **may be invalidated** for students who use a supplemental reference sheet that has already been filled in.

MCAS Grade 3 Mathematics

Approved Blank Supplemental Reference Sheet for Students with Accommodation A9

Note: Students may ONLY be provided with a blank reference sheet to use during testing.

General Problem-Solving Process	Order of Operations								
<ol style="list-style-type: none"> 1. Read/reread the problem for understanding. 2. Identify what the question is asking. 3. Make a plan to solve the problem. (<i>Choose at least one strategy</i>) <ul style="list-style-type: none"> • Draw a picture. • Create a table, chart, or list. • Look for a pattern. • Work backwards. • Write a number sentence or an equation. 4. Solve the problem. 5. Reread the problem to see if your solution makes sense. 	<p>PEMDAS</p> <ol style="list-style-type: none"> 1. Parentheses (brackets, etc.) 2. Exponents 3. Multiplication or Division (left to right) 4. Addition or Subtraction (left to right) <hr/> <p>GEMA</p> <ol style="list-style-type: none"> 1. Grouping 2. Exponents 3. Multiplicative operations (multiplication or division — left to right) 4. Additive operations (addition or subtraction — left to right) 								
Place Value	Geometric Measurement								
<table border="1" style="margin: auto; border-collapse: collapse;"> <tr> <td style="padding: 5px;">Thousands</td> <td style="padding: 5px;">Hundreds</td> <td style="padding: 5px;">Tens</td> <td style="padding: 5px;">Ones</td> </tr> <tr> <td style="height: 20px;"></td> <td></td> <td></td> <td></td> </tr> </table>	Thousands	Hundreds	Tens	Ones					<p>$P =$ perimeter; $A =$ area; $l =$ length; $w =$ width</p> <p><u>Perimeter of Rectangle:</u> $P = l + l + w + w$</p> <p><u>Area of Rectangle:</u> $A = l \times w$</p> <p><u>Area Model:</u></p> <div style="text-align: center;">  </div>
Thousands	Hundreds	Tens	Ones						
Symbols									
<ul style="list-style-type: none"> • $>$ is greater than • $<$ is less than • $=$ is equal to 									

Number Line


Hundreds Charts

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

91	92	93	94	95	96	97	98	99	100
81	82	83	84	85	86	87	88	89	90
71	72	73	74	75	76	77	78	79	80
61	62	63	64	65	66	67	68	69	70
51	52	53	54	55	56	57	58	59	60
41	42	43	44	45	46	47	48	49	50
31	32	33	34	35	36	37	38	39	40
21	22	23	24	25	26	27	28	29	30
11	12	13	14	15	16	17	18	19	20
1	2	3	4	5	6	7	8	9	10

Multiplication Table

(NOTE: DO NOT COMPLETE THIS TABLE FOR THE STUDENT)

X	1	2	3	4	5	6	7	8	9	10
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										

Fraction Bars
