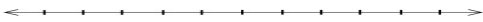


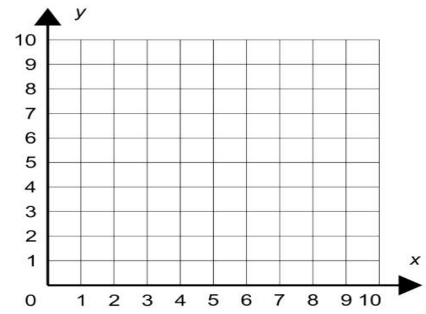
# Approved Supplemental Mathematics Reference Sheet— Grade 5

**ONLY** for use by students on the MCAS Mathematics test who have this accommodation listed in their IEP or 504 plan

**Note:** Students may NOT use a reference sheet that has already been filled out prior to the beginning of the test administration, and test administrators MUST check to confirm that they are providing students with blank sheets.

General Problem-Solving Strategies	Symbols																																										
<ul style="list-style-type: none"> <li>Reread question for clarity</li> <li>Draw a Picture</li> <li>Make a table</li> <li>Circle or highlight key terms</li> <li>Calculate and solve</li> <li>See if my answer makes sense</li> <li>Circle my answer</li> </ul>	<p>is greater than</p> <p>is less than</p> <p>is equal to</p>																																										
Place Value	Divisibility Rules																																										
<table border="1" style="margin: auto; border-collapse: collapse;"> <thead> <tr> <th colspan="6">Whole Numbers</th> <th colspan="4">Decimals</th> </tr> <tr> <th>Ht</th><th>Tt</th><th>Th</th><th>H</th><th>T</th><th>O</th><th>.</th><th>T</th><th>H</th><th>Th</th> </tr> </thead> <tbody> <tr> <td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td> </tr> </tbody> </table>	Whole Numbers						Decimals				Ht	Tt	Th	H	T	O	.	T	H	Th											<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%; text-align: center;">2</td> <td>If the last digit is even</td> </tr> <tr> <td style="text-align: center;">3</td> <td>If the sum of the digits can be divided by 3</td> </tr> <tr> <td style="text-align: center;">5</td> <td>If the last digit is 0 or 5</td> </tr> <tr> <td style="text-align: center;">6</td> <td>If the number is divisible by both 2 and 3</td> </tr> <tr> <td style="text-align: center;">9</td> <td>If the sum of the digits can be divided by 9</td> </tr> <tr> <td style="text-align: center;">10</td> <td>If the last digit is 0</td> </tr> </table>	2	If the last digit is even	3	If the sum of the digits can be divided by 3	5	If the last digit is 0 or 5	6	If the number is divisible by both 2 and 3	9	If the sum of the digits can be divided by 9	10	If the last digit is 0
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Number Line																																											
																																											
Devices	Perimeter (P)																																										
PEMDAS	Perimeter																																										
Hundreds Chart	Coordinate Plane																																										

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



**Area Model**

Area () of Rectangle  
()

A	

**Metric Conversions**

1 kilometer (km) = 1000 meters (m)  
 1 meter (m) = 100 centimeters (cm)  
 1 meter (m) = 1000 millimeters (mm)  
 1 kilogram (kg) = 1000 grams (g)  
 1 liter (L) = 1000 milliliters (mL)

**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										
11										
12										

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

