

Approved Supplemental Mathematics Reference Sheet Grade 7

(For use by students on the MCAS Mathematics test who have this accommodation)

General Problem Solving Strategies	Symbols				
Reread question for clarity Draw a picture Make a table Circle or highlight key terms Calculate and solve See if my answer makes sense Circle my answer Place Value Whole Numbers Decimals Ht Tt Th H T O . T H Th	> is greater than < is less than = is equal to absolute value ≤ is less than or equal to ≥ is greater than or equal to Divisibility Rules Color				
Number	Line				
-5 -4 -3 -2 -1 0	1 2 3 4 5				



Hundreds Chart	Coordinate Plane				
	y				
1 2 3 4 5 6 7 8 9 10	, and the second				
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	II I				
41 42 43 44 45 46 47 48 49 50	X				
51 52 53 54 55 56 57 58 59 60					
61 62 63 64 65 66 67 68 69 70	III IV				
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					
Devices and Operations	Percentages and Proportions				
• PEMDAS	$\bullet \frac{is}{of} = \frac{\%}{100}$				
Same sign – sum	. c a c . , , , ,				
Different sign – difference	• if $\frac{a}{b} = \frac{c}{d}$, then $ad = bc$				
Different sign affective					
Properties	Fractions				
Troperties	Tractions				
$\bullet a(b+c) = ab + ac$	$\bullet \frac{a}{b} + \frac{c}{d} = \frac{ad + bc}{bd}$				
• $a + (b + c) = (a + b) + c$	$\frac{b}{b} + \frac{d}{d} - \frac{bd}{bd}$				
	• $\frac{a}{b} - \frac{c}{d} = \frac{ad - bc}{bd}$				
• $a \cdot (b \cdot c) = (a \cdot b) \cdot c$					
$\bullet a \bullet b = b \bullet a$	$\bullet \frac{a}{b} \bullet \frac{c}{d} = \frac{ac}{bd}$				
$\bullet a+b=b+a$	$\bullet \frac{a}{b} \div \frac{c}{d} = \frac{ad}{bc}$				
Statistics	Probability				
 meAn MOde meDIan RangE 	$P = rac{favorable\ outcomes}{possible\ outcomes}$				



Multiplication Table										
X	1	2	3	4	5	6	7	8	9	10
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
			1	1	1		ı	1	I	