

RICAS Grade 7

Approved Supplemental Mathematics Reference Sheet*

General Problem Solving Strategies	Order of Operations					
General Problem Solving Strategies• 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• Symbols> is greater than< is less than	Order of Operations PEMDAS 1. Parentheses (brackets, etc.) 2. Exponents 3. Multiplication or Division (left to right) 4. Addition or Subtraction (left to right) 4. Addition or Subtraction (left to right) Divisibility Rules 2 If the last digit is even					
< is less than = is equal to x = absolute value \leq is less than or equal to \geq is greater than or equal to	 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 					
Hundreds Chart	Coordinate Plane					
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	2 nd Quadrant - 2 nd Quadrant - 2 nd Quadrant - 2 - 3 rd Quadrant - 3 rd Quadrant - 4 th Quadrant - 4					
Numb	er Line					
	1 2 3 4 5 6 7 8 9 10					

*Only for students who have this special access accommodation in their IEP: Calculators or other mathematics tools: noncalculator section. Information may be **removed** from this reference sheet; nothing may be added. Teachers **may not** complete the multiplication table; only the student may fill in information they need.



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Place Value										
		[ſ		D	ecimals				
Hundred- thousands	Ten- thousands	Thousands	Hund	lreds	Tens	Ones	•	Tenths	Hundredths	
	Percentages and Proportions									
	Probabilit	y		is		ercenta	ges	and Pro	portions	
$P = \frac{favorabl}{possible}$	• $\frac{is}{of} = \frac{\%}{100}$ • $\mathbf{x\%} = \frac{\mathbf{x}}{100}$ • $if \frac{a}{b} = \frac{c}{d}$, then $ad = bc$									
	Properties	5					Fr	actions		
 a(b+c)= a+(b+c)= a • (b • c) a • b = b a + b = b + a - (-b)= a + (-b)= 	• $\frac{a}{b} + \frac{c}{d} = \frac{ad + bc}{bd}$ • $\frac{a}{b} - \frac{c}{d} = \frac{ad - bc}{bd}$ • $\frac{a}{b} \cdot \frac{c}{d} = \frac{ac}{bd}$ • $\frac{a}{b} \div \frac{c}{d} = \frac{ad}{bc}$									
	Statistics			Geometry and Measurement Abbreviations						
 me<u>A</u>n-Ave <u>MO</u>de-Mos me<u>DI</u>an-M <u>R</u>ang<u>E-</u>Lea 	• $l = \text{length}$ • $w = \text{width}$ • $h = \text{height}$ • $s = \text{length of a side}$ • $b = \text{length of the base}$ • $d = \text{diameter}$ • $A = \text{area}$ • $B = \text{area}$ of the base • $P = \text{perimeter}$ • $C = \text{circumference}$ • $r = \text{radius}$									



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Multiplication Table (Do NOT complete this table for the student.)												
X	1	2	3	4	5	6	7	8	9	10	11	12
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												

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