



General Problem Solving Strategies										Order of Operations																					
<ul style="list-style-type: none"> 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 										PEMDAS <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) 																					
Symbols										Divisibility Rules																					
$>$ is greater than $<$ is less than $=$ is equal to $ x $ = absolute value \leq is less than or equal to \geq is greater than or equal to										<table border="1"> <tr> <td>2</td> <td>If the last digit is even</td> </tr> <tr> <td>3</td> <td>If the sum of the digits can be divided by 3</td> </tr> <tr> <td>5</td> <td>If the last digit is 0 or 5</td> </tr> <tr> <td>6</td> <td>If the number is divisible by both 2 and 3</td> </tr> <tr> <td>9</td> <td>If the sum of the digits can be divided by 9</td> </tr> <tr> <td>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
2	If the last digit is even																														
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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																					
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																						
Number Line																															

*Only for students who have this special access accommodation in their IEP: *Calculators or other mathematics tools: non-calculator 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.



Place Value								
Whole Numbers						Decimals		
Hundred-thousands	Ten-thousands	Thousands	Hundreds	Tens	Ones	.	Tenths	Hundredths
Probability					Percentages and Proportions			
$P = \frac{\text{favorable outcomes}}{\text{possible outcomes}}$					<ul style="list-style-type: none"> $\frac{\text{is}}{\text{of}} = \frac{\%}{100}$ $x\% = \frac{x}{100}$ if $\frac{a}{b} = \frac{c}{d}$, then $ad = bc$ 			
Properties					Fractions			
<ul style="list-style-type: none"> $a(b + c) = ab + ac$ $a + (b + c) = (a + b) + c$ $a \cdot (b \cdot c) = (a \cdot b) \cdot c$ $a \cdot b = b \cdot a$ $a + b = b + a$ $a - (-b) = a + b$ $a + (-b) = a - b$ 					<ul style="list-style-type: none"> $\frac{a}{b} + \frac{c}{d} = \frac{ad + bc}{bd}$ $\frac{a}{b} - \frac{c}{d} = \frac{ad - bc}{bd}$ $\frac{a}{b} \cdot \frac{c}{d} = \frac{ac}{bd}$ $\frac{a}{b} \div \frac{c}{d} = \frac{ad}{bc}$ 			
Statistics					Geometry and Measurement Abbreviations			
<ul style="list-style-type: none"> me<u>A</u>n-Average <u>M</u>Ode- Most Often me<u>D</u>Ian-Middle <u>R</u>ang<u>E</u>-Least to Greatest 					<ul style="list-style-type: none"> l = length w = width h = height s = length of a side b = length of the base d = diameter A = area B = area of the base P = perimeter C = circumference r = 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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