Words and Mathematical Phrases			
Operation	Example of Word Phrase	Translated into Symbols	
Addition			
Sum	the sum of 5 and 12	5 + 12 or 12 + 5	
Total	the <i>total</i> price of three items: \$5, \$12, and \$25	\$5 + \$12 + \$25 (in any order)	
All together	If there were 7 blue cars, 12 red cars, and 5 white cars, how many were there <i>all together</i> ?	7 + 12 + 5 (in any order)	
Increase	increase 16 by 3	16 + 3 or 3 + 16	
Increased by	29 increased by 7	29 + 7 or 7 + 29	
Add, added to	13 added to 12	13 + 12 or 12 + 13	
Plus	17 plus 8	17 + 8 or 8 + 17	
More than	Diane had \$13 <i>more than</i> Tina who had \$45.	\$45 + \$13 or \$13 + \$45	
	How much did Diane have?		
G 1	Subtraction	I	
Subtract from,	subtract 8 from 19	19 – 8	
subtracted from Difference	8 subtracted from 19	14 7	
	the difference between 14 and 7	14 – 7	
Left, remaining	Of 9 items, 6 were used. How many are <i>left</i> ?	9 – 6	
How much more; How much more than	A psychology book costs \$49 and a math book costs \$63. <i>How much more</i> does the math book cost?	\$63 – \$49	
Decrease; decreased by	decrease 37 by 9 or 37 decreased by 9	37 – 9	
Minus	41 minus 14	41 – 14	
Fewer	11 bottles <i>fewer</i> than the 32 started with	32 – 11	
Less	\$15 less an \$8 discount	\$15 – \$8	
Less than	15 less than 45	45 – 15	
Multiplication			
Multiply, multiplied by	multiply 5 by 8 or 5 multiplied by 8	5 • 8 or 8 • 5	
Product	the <i>product</i> of 12 and 6	12 • 6 or 6 •12	
Times	17 times 3	17 • 3 or 3 • 17	
	one half of 16	½ • 16 or 16 • ½	
Of	six tenths of 1200 SCC students	0.6 • 1200	
As many as	4/5 as many dogs as cats	# of dogs = $4/5 \cdot (# \text{ of cats})$	
Twice	twice 15	2 • 15 or 15 • 2	
Division			
D: :1 1: :1 11	1: 1 201 7 20 1: 1 11 7 1: 1	20	
Divide, divided by, divide into equal parts	divide 28 by 7 or 28 divided by 7 or divide 28 into 7 equal parts	$28 \div 7 \text{ or } 7)28 \text{ or } \frac{28}{7}$	
Quotient	the quotient of 18 and 3	$18 \div 3 \text{ or } 3)18 \text{ or } \frac{18}{3}$	
Per	miles per gallon	miles \div gallons or gal miles or $\frac{\text{miles}}{\text{gal}}$	
Average	the average of 12, 18, and 23	$\frac{12+18+23}{3}$	
Ratio	the ratio of 20 and 5	$20 \div 5 \text{ or } 5)20 \text{ or } \frac{20}{5}$	
Distribute evenly or equally	distribute \$200 evenly between 4 people	$200 \div 4 \text{ or } 4)200 \text{ or } \frac{200}{4}$	
Cut up, cut into	cut 15 feet of ribbon into 5 equal pieces	$15 \div 5 \text{ or } 5)15 \text{ or } \frac{15}{5}$	

Inequalities			
<			
less than	the sum of x and y is less than 20	x + y < 20	
	>		
more/greater/higher than	the sum of x and y is <i>greater than</i> 20 the temperature is <i>higher than</i> 85	$ \begin{array}{c} x + y > 20 \\ T > 85 \end{array} $	
exceeds	the profit must exceed \$1000	P > 1000	
≥			
greater than or equal to	Bob's test scores are always greater than or equal to 90	S ≥ 90	
at least	my car's mileage is at least 30 mpg	M ≥ 30	
minimum	the <i>minimum</i> weight to qualify is 132 lb	W ≥ 132	
not less than	the price is not less than \$25	P ≥ 25	
≤			
less than or equal to	x is less than or equal to y	x ≤ y	
at most	the distance of the rides is <i>at most</i> 40 mi.	D ≤ 40	
maximum	the <i>maximum</i> number of units is 400	N ≤ 400	
not more/higher than	test scores were not higher than 83	S ≤ 83	
does not exceed	the cost of a phone call does not exceed \$3.50	C ≤ 3.50	
the greatest number	the greatest number of hours allowable is 60	H ≤ 60	