

# Math Facts for the SHSAT

<b>Contents</b>		
<b>#</b>		<b>Page</b>
1	Sets	1
2	Hierarchy of Real Numbers	5
3	The Number Line	7
4	Inequalities	9
5	Prime Numbers (2 – 100) <i>(Sieve of Eratosthenes)</i>	11
6	Rounding Numbers	13
7	Significant Digits	15
8	Properties of Real Numbers	19
9	Multiplication Tables	23
10	"Tricks" with the Multiplication Tables	24
11	Multiplying Two-Digit Numbers by 11	25
12	Rules of Divisibility (2 – 12)	27
13	Prime Number Factoring	29
14	Multiplying and Dividing by Powers of 10	31
15	Perfect Squares and Square Roots (1 – 25)	33
16	Patterns of Perfect Squares and Square Roots (1 – 25)	34
17	Squares and Square Roots (1 – 100)	35
18	"Trick" for Squaring Numbers <i>that end in "5"</i>	36
19	"Trick" for Determining Square Roots of Numbers <i>that end in "25"</i>	37
20	"Trick" for <i>Approximating</i> Square Roots	38
21	Perfect Cubes and Cube Roots (1 – 10)	39
22	Patterns of Cubes and Cube Roots (1 – 10)	40
23	Cubes and Cube Roots (1 – 100)	41
24	Operations with Consecutive Integers	43
25	Sequences	45
26	Series	51