

# Math Facts for the SHSAT

Metric Prefixes					
Prefix	Symbol	Meaning	Value		
Tera-	T	<b>Trillion</b>	<b>1,000,000,000,000</b>	=	<b><math>10^{12}</math></b>
		Hundred Billion	100,000,000,000	=	$10^{11}$
		Ten Billion	10,000,000,000	=	$10^{10}$
Giga-	G	<b>Billion</b>	<b>1,000,000,000</b>	=	<b><math>10^9</math></b>
		Hundred Million	100,000,000	=	$10^8$
		Ten Million	10,000,000	=	$10^7$
Mega-	M	<b>Million</b>	<b>1,000,000</b>	=	<b><math>10^6</math></b>
		Hundred Thousand	100,000	=	$10^5$
		Ten Thousand	10,000	=	$10^4$
kilo-	k	<b>Thousand</b>	<b>1,000</b>	=	<b><math>10^3</math></b>
hecto-	h	<b>Hundred</b>	<b>100</b>	=	<b><math>10^2</math></b>
deka-	da	<b>Ten</b>	<b>10</b>	=	<b><math>10^1</math></b>
		byte, B second, s <b>Units</b> gram, g meter, m calorie, c liter, l	<b>1</b>	=	<b><math>10^0</math></b>
deci-	d	<b>Tenth</b>	<b>0.1</b>	$\frac{1}{10}$	= <b><math>10^{-1}</math></b>
centi-	c	<b>Hundredth</b>	<b>0.01</b>	$\frac{1}{100}$	= <b><math>10^{-2}</math></b>
milli-	m	<b>Thousandth</b>	<b>0.001</b>	$\frac{1}{1,000}$	= <b><math>10^{-3}</math></b>
		Ten Thousandth	0.0001		= $10^{-4}$
		Hundred Thousandth	0.00001		= $10^{-5}$
micro-	μ	<b>Millionth</b>	<b>0.000001</b>	$\frac{1}{1,000,000}$	= <b><math>10^{-6}</math></b>
		Ten Millionth	0.0000001		= $10^{-7}$
		Hundred Millionth	0.00000001		= $10^{-8}$
nano-	n	<b>Billionth</b>	<b>0.000000001</b>	$\frac{1}{1,000,000,000}$	= <b><math>10^{-9}</math></b>
		Ten Billionth	0.0000000001		= $10^{-10}$
		Hundred Billionth	0.00000000001		= $10^{-11}$
pico-	p	<b>Trillionth</b>	<b>0.000000000001</b>	$\frac{1}{1,000,000,000,000}$	= <b><math>10^{-12}</math></b>