SI* (MODERN METRIC) CONVERSION FACTORS				
		ATE CONVERSIONS		
SYMBOL	WHEN YOU KNOW	MULTIPLY BY	TO FIND	SYMBOL
		LENGTH		
in	inches	25.4	millimeters	mm
ft	feet	0.305	meters	m
yd mi	yards miles	0.914 1.61	meters	m km
mi	miles	AREA	kilometers	KIII
in ²	square inches	645.2	square millimeters	mm ²
ft ²	square freet	0.093	square meters	m ²
yd ²	square yard	0.836	square meters	m ²
ac	acres	0.405	hectares	ha
mi ²	square miles	2.59	square kilometers	km ²
		VOLUME		
fl oz	fluid ounces	29.57	milliliters	mL
gal ft ³	gallons	3.785	liters	L
tt°	cubic feet	0.028	cubic meters	m ³ m ³
yd ³	cubic yards NOTE: volur	0.765 nes greater than 1000 L shall	cubic meters be shown in m ³	111
NOTE: volumes greater than 1000 L shall be shown in m ³ MASS				
oz	ounces	28.35	grams	g
lb	pounds	0.454	kilograms	g kg
T	short tons (2000 lb)	0.907	megagrams (or "metric ton")	Mg (or "t")
TEMPERATURE (exact degrees)				
°F	Fahrenheit	5 (F-32)/9	Celsius	°C
		or (F-32)/1.8		
		ILLUMINATION		
fc	foot-candles	10.76	lux	lx 2
fl	foot-Lamberts	3.426	candela/m²	cd/m ²
		E and PRESSURE or S		
lbf	poundforce	4.45	newtons	N kPa
lbf/in ²	poundforce per square inch	6.89	kilopascals	кРа
ווו/ונוו	<u> </u>	TE CONVERSIONS F		кРа
SYMBOL	<u> </u>	TE CONVERSIONS F		SYMBOL
	APPROXIMA WHEN YOU KNOW	TE CONVERSIONS F MULTIPLY BY LENGTH	TO FIND	SYMBOL
SYMBOL mm	APPROXIMA WHEN YOU KNOW millimeters	TE CONVERSIONS F MULTIPLY BY LENGTH 0.039	FROM SI UNITS TO FIND inches	SYMBOL
SYMBOL mm m	APPROXIMA WHEN YOU KNOW millimeters meters	TE CONVERSIONS F MULTIPLY BY LENGTH 0.039 3.28	FROM SI UNITS TO FIND inches feet	SYMBOL in ft
SYMBOL mm m m	APPROXIMA WHEN YOU KNOW millimeters meters meters meters	TE CONVERSIONS F MULTIPLY BY LENGTH 0.039 3.28 1.09	FROM SI UNITS TO FIND inches feet yards	SYMBOL in ft yd
SYMBOL mm m	APPROXIMA WHEN YOU KNOW millimeters meters	TE CONVERSIONS F MULTIPLY BY LENGTH 0.039 3.28 1.09 0.621	FROM SI UNITS TO FIND inches feet	SYMBOL in ft
SYMBOL mm m m km	APPROXIMA WHEN YOU KNOW millimeters meters meters kilometers	TE CONVERSIONS F MULTIPLY BY LENGTH 0.039 3.28 1.09 0.621 AREA	FROM SI UNITS TO FIND inches feet yards miles	SYMBOL in ft yd mi
SYMBOL mm m m	APPROXIMA WHEN YOU KNOW millimeters meters meters meters	TE CONVERSIONS F MULTIPLY BY LENGTH 0.039 3.28 1.09 0.621	FROM SI UNITS TO FIND inches feet yards	SYMBOL in ft yd
SYMBOL mm m m km mm²	APPROXIMA WHEN YOU KNOW millimeters meters meters kilometers square millimeters	TE CONVERSIONS F MULTIPLY BY LENGTH 0.039 3.28 1.09 0.621 AREA 0.0016 10.764 1.195	FROM SI UNITS TO FIND inches feet yards miles square inches	SYMBOL in ft yd mi in²
SYMBOL mm m m km mm² m² m² ha	APPROXIMA WHEN YOU KNOW millimeters meters meters kilometers square millimeters square meters square meters hectares	TE CONVERSIONS F MULTIPLY BY LENGTH 0.039 3.28 1.09 0.621 AREA 0.0016 10.764 1.195 2.47	FROM SI UNITS TO FIND inches feet yards miles square inches square feet square yards acres	SYMBOL in ft yd mi in² ft² yd² ac
SYMBOL mm m m km mm² m² m² m²	APPROXIMA WHEN YOU KNOW millimeters meters meters kilometers square millimeters square meters square meters square meters	TE CONVERSIONS F MULTIPLY BY LENGTH 0.039 3.28 1.09 0.621 AREA 0.0016 10.764 1.195 2.47 0.386	FROM SI UNITS TO FIND inches feet yards miles square inches square feet square yards	SYMBOL in ft yd mi in² ft² yd²
SYMBOL mm m m km mm² m² m² ha km²	APPROXIMA WHEN YOU KNOW millimeters meters meters kilometers square millimeters square meters square meters hectares square kilometers	TE CONVERSIONS F MULTIPLY BY LENGTH 0.039 3.28 1.09 0.621 AREA 0.0016 10.764 1.195 2.47 0.386 VOLUME	FROM SI UNITS TO FIND inches feet yards miles square inches square feet square yards acres square miles	SYMBOL in ft yd mi in² ft² yd² ac mi²
SYMBOL mm m m km mm² m² m² ha km² mL	APPROXIMA WHEN YOU KNOW millimeters meters meters meters kilometers square millimeters square meters square meters hectares square kilometers milliliters	TE CONVERSIONS F MULTIPLY BY LENGTH 0.039 3.28 1.09 0.621 AREA 0.0016 10.764 1.195 2.47 0.386 VOLUME 0.034	FROM SI UNITS TO FIND inches feet yards miles square inches square feet square yards acres square miles fluid ounces	SYMBOL in ft yd mi in² ft² yd² ac mi² fl oz
SYMBOL mm m m km m² m² m² ha km² mL	APPROXIMA WHEN YOU KNOW millimeters meters meters meters kilometers square millimeters square meters square meters hectares square kilometers milliliters liters	TE CONVERSIONS F MULTIPLY BY LENGTH 0.039 3.28 1.09 0.621 AREA 0.0016 10.764 1.195 2.47 0.386 VOLUME 0.034 0.264	FROM SI UNITS TO FIND inches feet yards miles square inches square feet square yards acres square miles fluid ounces gallons	symbol in ft yd mi in² ft² yd² ac mi² fl oz gal
SYMBOL mm m m km m² m² m² ha km² mL L m³	APPROXIMA WHEN YOU KNOW millimeters meters meters kilometers square millimeters square meters square meters hectares square kilometers milliliters liters cubic meters	TE CONVERSIONS F MULTIPLY BY LENGTH 0.039 3.28 1.09 0.621 AREA 0.0016 10.764 1.195 2.47 0.386 VOLUME 0.034 0.264 35.314	inches feet yards miles square inches square feet square yards acres square miles fluid ounces gallons cubic feet	symbol in ft yd mi in² ft² yd² ac mi² fl oz gal ft³
SYMBOL mm m m km m² m² m² ha km² mL	APPROXIMA WHEN YOU KNOW millimeters meters meters meters kilometers square millimeters square meters square meters hectares square kilometers milliliters liters	TE CONVERSIONS F MULTIPLY BY LENGTH 0.039 3.28 1.09 0.621 AREA 0.0016 10.764 1.195 2.47 0.386 VOLUME 0.034 0.264 35.314 1.307	FROM SI UNITS TO FIND inches feet yards miles square inches square feet square yards acres square miles fluid ounces gallons	symbol in ft yd mi in² ft² yd² ac mi² fl oz gal
SYMBOL mm m m km m² m² ha km² mL L m³ m³	APPROXIMA WHEN YOU KNOW millimeters meters meters meters kilometers square millimeters square meters square meters hectares square kilometers milliliters liters cubic meters cubic meters	TE CONVERSIONS F MULTIPLY BY LENGTH 0.039 3.28 1.09 0.621 AREA 0.0016 10.764 1.195 2.47 0.386 VOLUME 0.034 0.264 35.314 1.307 MASS	inches feet yards miles square inches square feet square yards acres square miles fluid ounces gallons cubic feet cubic yards	symbol in ft yd mi in² ft² yd² ac mi² fl oz gal ft³ yd³
SYMBOL mm m m km m² m² m² ha km² mL L m³	APPROXIMA WHEN YOU KNOW millimeters meters meters kilometers square millimeters square meters square meters hectares square kilometers milliliters liters cubic meters	TE CONVERSIONS F MULTIPLY BY LENGTH 0.039 3.28 1.09 0.621 AREA 0.0016 10.764 1.195 2.47 0.386 VOLUME 0.034 0.264 35.314 1.307	inches feet yards miles square inches square feet square yards acres square miles fluid ounces gallons cubic feet	symbol in ft yd mi in² ft² yd² ac mi² fl oz gal ft³
SYMBOL mm m m km m² m² m² ha km² mL L m³ m³	APPROXIMA WHEN YOU KNOW millimeters meters meters meters kilometers square millimeters square meters hectares square kilometers milliliters liters cubic meters cubic meters grams	TE CONVERSIONS F MULTIPLY BY LENGTH 0.039 3.28 1.09 0.621 AREA 0.0016 10.764 1.195 2.47 0.386 VOLUME 0.034 0.264 35.314 1.307 MASS 0.035	inches feet yards miles square inches square feet square yards acres square miles fluid ounces gallons cubic feet cubic yards ounces	symbol in ft yd mi in² ft² yd² ac mi² fl oz gal ft³ yd³ oz
SYMBOL mm m m km m² m² m² ha km² mL L m³ m³ m³ dig kg Mg (or "t")	APPROXIMA WHEN YOU KNOW millimeters meters meters meters kilometers square millimeters square meters hectares square kilometers milliliters liters cubic meters cubic meters grams kilograms megagrams (or "metric ton")	TE CONVERSIONS F MULTIPLY BY LENGTH 0.039 3.28 1.09 0.621 AREA 0.0016 10.764 1.195 2.47 0.386 VOLUME 0.034 0.264 35.314 1.307 MASS 0.035 2.202	inches feet yards miles square inches square feet square yards acres square miles fluid ounces gallons cubic feet cubic yards ounces pounds short tons (2000 lb)	symbol in ft yd mi in² ft² yd² ac mi² fl oz gal ft³ yd³ oz lb T
SYMBOL mm m m km m² m² m² ha km² mL L m³ m³ m³	APPROXIMA WHEN YOU KNOW millimeters meters meters meters kilometers square millimeters square meters hectares square kilometers milliliters liters cubic meters cubic meters grams kilograms megagrams (or "metric ton")	TE CONVERSIONS F MULTIPLY BY LENGTH 0.039 3.28 1.09 0.621 AREA 0.0016 10.764 1.195 2.47 0.386 VOLUME 0.034 0.264 35.314 1.307 MASS 0.035 2.202 1.103 IPERATURE (exact decorated)	inches feet yards miles square inches square feet square yards acres square miles fluid ounces gallons cubic feet cubic yards ounces pounds short tons (2000 lb)	symbol in ft yd mi in² ft² yd² ac mi² fl oz gal ft³ yd³ oz lb
SYMBOL mm m m km m² m² m² ha km² mL L m³ m³ m³ dig kg Mg (or "t")	APPROXIMA WHEN YOU KNOW millimeters meters meters meters kilometers square millimeters square meters hectares square kilometers milliliters liters cubic meters cubic meters grams kilograms megagrams (or "metric ton") TEN	TE CONVERSIONS F MULTIPLY BY LENGTH 0.039 3.28 1.09 0.621 AREA 0.0016 10.764 1.195 2.47 0.386 VOLUME 0.034 0.264 35.314 1.307 MASS 0.035 2.202 1.103 IPERATURE (exact de 1.8C+32 ILLUMINATION	inches feet yards miles square inches square feet square yards acres square miles fluid ounces gallons cubic feet cubic yards ounces pounds short tons (2000 lb) grees) Fahrenheit	symbol in ft yd mi in² ft² yd² ac mi² fl oz gal ft³ yd³ oz lb T
SYMBOL mm m m km m² m² m² ha km² mL L m³ m³ d y kg Mg (or "t") °C	APPROXIMA WHEN YOU KNOW millimeters meters meters meters kilometers square millimeters square meters hectares square kilometers milliliters liters cubic meters cubic meters grams kilograms megagrams (or "metric ton") TEN Celsius	TE CONVERSIONS F MULTIPLY BY LENGTH 0.039 3.28 1.09 0.621 AREA 0.0016 10.764 1.195 2.47 0.386 VOLUME 0.034 0.264 35.314 1.307 MASS 0.035 2.202 1.103 IPERATURE (exact de 1.8C+32 ILLUMINATION 0.0929	inches feet yards miles square inches square feet square yards acres square miles fluid ounces gallons cubic feet cubic yards ounces pounds short tons (2000 lb) grees) Fahrenheit foot-candles	symbol in ft yd mi in² ft² yd² ac mi² fl oz gal ft³ yd³ oz lb T
SYMBOL mm m m km m² m² ha km² mL L m³ m³ g kg Mg (or "t") °C	APPROXIMA WHEN YOU KNOW millimeters meters meters meters kilometers square millimeters square meters hectares square kilometers milliliters liters cubic meters cubic meters grams kilograms megagrams (or "metric ton") TEN Celsius	TE CONVERSIONS F MULTIPLY BY LENGTH 0.039 3.28 1.09 0.621 AREA 0.0016 10.764 1.195 2.47 0.386 VOLUME 0.034 0.264 35.314 1.307 MASS 0.035 2.202 1.103 IPERATURE (exact de 1.8C+32 ILLUMINATION 0.0929 0.2919	inches feet yards miles square inches square feet square yards acres square miles fluid ounces gallons cubic feet cubic yards ounces pounds short tons (2000 lb) grees) Fahrenheit foot-candles foot-Lamberts	symbol in ft yd mi in² ft² yd² ac mi² fl oz gal ft³ yd³ oz lb T
SYMBOL mm m m km m² m² m² ha km² mL L m³ m³ s y kg Mg (or "t") °C	APPROXIMA WHEN YOU KNOW millimeters meters meters meters kilometers square millimeters square meters square meters hectares square kilometers milliliters liters cubic meters cubic meters grams kilograms megagrams (or "metric ton") TEN Celsius lux candela/m² FORC	TE CONVERSIONS F MULTIPLY BY LENGTH 0.039 3.28 1.09 0.621 AREA 0.0016 10.764 1.195 2.47 0.386 VOLUME 0.034 0.264 35.314 1.307 MASS 0.035 2.202 1.103 IPERATURE (exact de 1.8C+32 ILLUMINATION 0.0929 0.2919 EE and PRESSURE or \$200	FROM SI UNITS TO FIND inches feet yards miles square inches square feet square yards acres square miles fluid ounces gallons cubic feet cubic yards ounces pounds short tons (2000 lb) grees) Fahrenheit foot-candles foot-Lamberts STRESS	symbol in ft yd mi in² ft² yd² ac mi² fl oz gal ft³ yd³ oz lb T °F
SYMBOL mm m m km m² m² ha km² mL L m³ m³ d y x y x y x y x y x y x y x y x y x y	APPROXIMA WHEN YOU KNOW millimeters meters meters meters kilometers square millimeters square meters hectares square kilometers milliliters liters cubic meters cubic meters grams kilograms megagrams (or "metric ton") TEN Celsius	TE CONVERSIONS F MULTIPLY BY LENGTH 0.039 3.28 1.09 0.621 AREA 0.0016 10.764 1.195 2.47 0.386 VOLUME 0.034 0.264 35.314 1.307 MASS 0.035 2.202 1.103 IPERATURE (exact de 1.8C+32 ILLUMINATION 0.0929 0.2919	inches feet yards miles square inches square feet square yards acres square miles fluid ounces gallons cubic feet cubic yards ounces pounds short tons (2000 lb) grees) Fahrenheit foot-candles foot-Lamberts	symbol in ft yd mi in² ft² yd² ac mi² fl oz gal ft³ yd³ oz lb T

^{*}SI is the symbol for the International System of Units. Appropriate rounding should be made to comply with Section 4 of ASTM E380. (Revised March 2003)

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