

Math-in-CTE II Brake Measurement Conversions

Name _____ Date _____ Period _____

Quite often a technician will have to make conversions from metric to SAE or from SAE to metric. His/her precision measuring device might be in thousandths of an inch and specifications might be in millimeters or vice-versa.

Please convert the following measurements
(your basis for conversion is 25.4mm = 1 inch)
(*Show your work*)

Metric to SAE (mm to inches)		SAE to Metric (inches to mm)	
mm	inches	inches	mm
26mm	1.024"	0.975"	24.765mm
Example: $26mm \div 25.4 = 1.024"$		Example: $0.975" \times 25.4 = 24.765mm$	
30mm		1.080"	
8mm		10.079"	
19mm		1.254"	
32mm		0.750"	
40mm		9.45"	
10mm		10"	
254mm		1.375"	