

## 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
<b>26mm</b>	<b>1.024"</b>	<b>0.975"</b>	<b>24.765mm</b>
Example: $26mm \div 25.4 = 1.024"$		Example: $0.975" \times 25.4 = 24.765mm$	
<b>30mm</b>		<b>1.080"</b>	
<b>8mm</b>		<b>10.079"</b>	
<b>19mm</b>		<b>1.254"</b>	
<b>32mm</b>		<b>0.750"</b>	
<b>40mm</b>		<b>9.45"</b>	
<b>10mm</b>		<b>10"</b>	
<b>254mm</b>		<b>1.375"</b>	