

## Homework - Systems of Measurement

Student Name \_\_\_\_\_ Date \_\_\_\_\_

Self-Test: Complete the following questions at the end of the unit.

1) 2.77 cm. is equal to: 1) \_\_\_\_\_  
A) 1.0704 inches      B) 107.4 inches      C) .01074 inches      D) .1074 inches

2) Knowing inches, to find cm. multiply inches by: 2) \_\_\_\_\_  
A) 25.4      B) .03937      C) 10      D) 2.54

3) A certain machined part is 1257 mm. long. Expressed in terms of meters, how long would the part be 3) \_\_\_\_\_  
A) 1.257 m.      B) 125.7 m.      C) 12570 m.      D) .1257 m.

4) Knowing mm., to find cm.: 4) \_\_\_\_\_  
A) Multiply by 10      B) Multiply by 100      C) Divide by 10      D) Divide by 100

5) .0625 inch is equal to how many mm.? 5) \_\_\_\_\_  
A) 1.58      B) .625      C) 6.25      D) .002

6) Express the tolerance  $+\/- .05$  mm. to the nearest thousandth of an inch. 6) \_\_\_\_\_  
A)  $+\/- .050$  in.      B)  $+\/- .127$  in.      C)  $+\/- .005$  in.      D)  $+\/- .002$  in.

7) Express the tolerance  $+\/- .125$  inch in terms of mm. to the nearest 1/100 mm. 7) \_\_\_\_\_  
A)  $+\/- 1.25$  mm.      B)  $+\/- 3$  mm.      C)  $+\/- 3.17$  mm.      D)  $+\/- .05$  mm.

8) 17.27 cm is equal to how many inches? 8) \_\_\_\_\_  
A) 172.7 in.      B) 6.799 in.      C) .06799 in.      D) 43.865 in.

9) A cutting speed of 80 surface feet per minute is approximately how many cm. per minute? 9) \_\_\_\_\_  
A) 960      B) 38      C) 800      D) 2438.4

10) During a certain machining operation, 12 cubic inches of material are removed. This amount expressed in terms of cubic centimeter (cm.) is: 10) \_\_\_\_\_  
A) 16.38 cm.      B) 1966 cm.      C) 163.8 cm.      D) 196.38 cm.