Density and Statistics Practice Sheet

1.   A block of wood has a mass of 12 g and a volume of 50 cm^3. Calculate the density

Given	shown in problem, the given variables	Picture and Process
		Draw picture, count, calculate
Unknowns	variable to be found	
Equation(s)	with unknowns and given	
Solution		

2.   A block of metal has a mass of 23 g and a volume of 17 cm^3. Calculate the density.

Given	shown in problem, the given variables	Picture and Process
Unknowns	variable to be found	Draw picture, count, calculate
Equation(s)	with unknowns and give	
Solution		

3.   A cube of plastic has a mass of 17 g and a side length of 3 cm. Calculate the density.

Given	shown in problem, the given variables	Picture and Process
Unknowns	variable to be found	Draw picture, count, calculate
Equation(s)	with unknowns and given	
Solution		

4.   A cube of glass has a mass of 35 g and a side length of 7 cm. Calculate the density.

Given	shown in problem, the given variables	Picture and Process
Unknowns	variable to be found	Draw picture, count, calculate
Equation(s)	with unknowns and given	
Solution		

Name: _____ Date: _____ Class: _____

5. A rectangular prism has a mass of 80 g and a side lengths of 7 cm, 13 cm and19 cm. Calculate the density.

Given	shown in problem, the given variables	Picture and Process	
Unknowns	variable to be found	Draw picture, count, calculate	
Equation(s)	with unknowns and given		
Solution			

6. A right triangular prism has a mass of 103 g, leg lengths of 4 cm and 9 cm, and a length of 17 cm. Calculate the density.

Given	shown in problem, the given variables	Picture and Process	
Unknowns	variable to be found	Draw picture, count, calculate	
Equation(s)	with unknowns and given		
Solution			

7. Measurements of 0.43, 0.44, 0.42. 0.42, 0.43, 0.41, 0.41 cm are collected. Calculate the mean, median, mode and standard deviation for this data set.

Given	shown in problem, the given variables	Picture and Process	
Unknowns	variable to be found	Draw picture, count, calculate	
Equation(s)	with unknowns and given		
Solution			

8. Measurements of 0.061, 0.019, 0.021. 0.022, 0.018, 0.018, 0.019 cm are collected. Calculate the mean, median, mode and standard deviation for this data set.

Given	shown in problem, the given variables	Picture and Process	
Unknowns	variable to be found	Draw picture, count, calculate	
Equation(s)	with unknowns and given		
Solution			