| Penny Barge Worksheet.           |   |   |  |   |   | Name  |  |   |                             | Period                             |   |
|----------------------------------|---|---|--|---|---|---|--|---|-----------------------------|------------------------------------|---|
| foi2) Use m to 03) An ex4) Recor | I to carry as nathematica determine if sternal force d at least 3 get to deterr | may pennies I formulas (w it will float) or "tug boa complete set nine if it will | as possily ithout we well was may to will be to colour float. On | ble across t<br>rater) to cal<br>r not use w<br>e used to p<br>lations of t<br>nly barges v | the "lake<br>lculate t<br>rater.<br>rush or p<br>the dens<br>with cal | e". 10 pennie<br>the volume an<br>bull your barg<br>sity of your em<br>culations that | cm square of alles meet the requed density of your eacross the lake apty and then fulls show they wills, it will be have t | irements. Barge     I I I I I I I I I I I I I I I I I | be tested                   | float.                             | Gravity  Density of boat  Density of water  uoyancy |
| Barge #                          | # of<br>Pennies   | centime   | eters (cm<br>Volun   | X height 🖯  | ate   | V<br>Volume in<br>cm <sup>3</sup>   | m<br>Mass in g<br>(grams)<br>**  | Densit  | D sity = m/v ss is first!!) |                                    | eled Drawings:<br>Notes:                            |
| 1                                | 0 (zero)  | x   | x  | =   | $\rightarrow$   | V =   | m =  | D=  | ,                           |                                    |   |
| 2                                |   |   |  |   |   |   |  |   |                             |                                    |   |
| 3                                |   |   |  |   |   |   |  |   |                             |                                    |   |
| 5) Choos                         | se your best  | Barge Solutio   | on and w   | rite the da   | ta for it   | here:   |  |   |                             |                                    |   |
| Your<br>Solution                 |   |   |  |   |   |   |  |   |                             |                                    |   |
|                                  |   |   |  |   |   |   |  |   |                             | ody is equal to that of the volume |   |

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