## Physics 11 Unit 2 - Worksheet \#1 - Fg, mass, units

Name: $\qquad$

1. Calculate the weight of a 4 kg jug of milk (in Newtons).
2. Calculate the force of gravity in Newtons on a 40 kg girl.
3. The force of gravity on a box is 597 N on the surface of the Earth. Find the mass of the box.
4. 

a) 500 grams $=$ $\qquad$ kg
b) 60 grams $=$ $\qquad$ kg
c) $4 \mathrm{~kg}=$ $\qquad$ grams
d) 4 grams $=$ $\qquad$ kg
5. a) 1.5 pounds $=$ $\qquad$ kg
b) 120 pounds = $\qquad$ kg
6. If I move a box from the Earth to the moon the $\qquad$ stays the same but the
$\qquad$ changes.
7. The metric units for mass are $\qquad$
8. The metric units for force are $\qquad$
9. The imperial units for force are $\qquad$
10. The imperial units for mass are $\qquad$ (not used often)
11. A 4 kg block is sitting on the table. Find the normal force on the block.
12. A 30 N box is sitting on a table. A string is pulling up on the box with a 9 N force. Find the normal force on the box.
13. A 5 kg box is sitting on a table. Bob's hand is pushing down on the box with a 12 N force. Find the normal force on the box.

