ABRHS PHYSICS ((CP))
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Mass	&	Weight	Concepts
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1. Mass and weight are two very different concepts that are often confused. Give the definitions of each in the space below: MASS:

WEIGHT:

7.

2. Mass is measured in ______ and weight is measured in ______.

- 3. Which is the same, no matter where you are in the universe? MASS
- 4. Which depends on your location, and can change from place to place and planet to planet? WE [64+7

5. On the earth, a mass of 1 kg weighs about $\underbrace{P \ N}_{}$.

6. What is the equation that relates weight and mass?

Gravity on the moon is about 1/6 that of the earth. Would it be feasier/harder/just the same] to hold a rock on the moon that was very heavy on the earth? Why?

w=mq

Easier. It would weigh about 1 as much.

8. Would it be [easier/harder just the same] to push a heavy car on the moon compared to pushing it on the earth? Why? The same. The inertia (Mass) of the wouldn't change,

so it would be just as difficult to accelerate the car.

NAME: KEY



NAME:



17. If you travel from planet to planet, your <u>MASS</u> stays the same no matter where you are, but your <u>WEIGHT</u> changes depending on the planet you are on.

Answers to qu	uestions 9-17:				
9) 20 N	10) 50 N	11) 125 N	12) 3 kg	13) 7 kg	14) 15.5 kg
15) 2.5 kg	16) O N	17) mass, weight			