

1. Mass answers the question: “ _____ ”
2. Give at least 2 possible units for mass. _____
3. The official unit for mass in physics is the _____.
4. Are “pounds” a unit for mass? _____
5. Pounds are a unit for _____
6. Are “newtons” a unit for mass? _____
7. Newtons are a unit for _____
8. Name something of a mass of 1 gram. _____
9. Something of mass of ~ 10 grams? _____
10. What is the mass of Mr. Menin?
11. A medium sized car might have a mass of:
 a) .2 kg b) 80 kg c) 180 kg d) 500 kg e) 1200 kg
12. A short, skinny marathon runner might have a mass of:
 a) .2 kg b) 5 kg c) 60 kg d) 160 kg e) 800 kg
13. A big pro football lineman might have a mass of:
 a) 10 kg b) 40 kg c) 80 kg d) 140 kg e) 1200 kg
14. A mouse might have a mass of:
 a) .2 kg b) 4 kg c) 60 kg d) 140 kg e) 1200 kg
15. A cat might have a mass of:
 a) .2 kg b) 4 kg c) 60 kg d) 140 kg e) 1200 kg

16. Below are listed some properties that describe you. Pretend we suddenly move you to the moon and just stick you on the surface. If the property would be different on the moon, write a “C” by it, for “changed.” If the property would stay the same , write “S” for “same.”

Name _____ Hair Color _____ Weight _____ Location _____ Mass _____ How High You Could Jump _____
 Breathing _____ Distance From Mr. Meshna _____ Amount Of Stuff In You _____

17. Picture a very heavy metal safe on wheels. It is too heavy to lift. It’s hard to get it moving sideways but you can do it. You get it rolling and it crashes into a table.

Now move the whole scene to the moon.

- A. You try to lift the safe. On the moon it is _____ to lift the safe.
 a) easier b) harder c) the same
- B. You try to push it sideways. On the moon it takes _____ force to push it sideways.
 a) less b) more c) the same
- C. The safe crashes into a table. On the moon it does _____ damage.
 a) less b) more c) the same amount of

18. You are S.H. Airlock Holmes, space detective. Two astronauts are on a spaceship in empty space. One is found dead. You suspect that the other astronaut killed him with a massive hammer. But the accused astronaut says, “That’s impossible! In empty space nothing has any weight. That hammer couldn’t have done any damage.” What do you say? Pretend you are trying to prove him wrong in front of a jury.