

FORCES YEAR 7

1. What is force measured in?

Joules Kilograms Newtons Pascals

2. In physical science, a push or a pull is called a(n)

Gravity force energy motion

3. On Jupiter, 1kg weighs approximately 25 newtons. What would be the weight **of** 10 kg?

0.25N 2.5N 250N 2500N

4. The weight of an object

- A. stays the same wherever the object is
- B. changes if the object is in motion.
- C. the same if the object is in motion.
- D. changes if the force of gravity changes.

5. Which of the following is NOT a force?

Gravity Mass Magnetism Weight

6. The amount of matter in an object is called its

weight balance. force. mass.

7. Which of the following is a non-contact force?

A push Air resistance Friction Magnetism

8. A force of _____ acts when solid surfaces slide (or tend to slide) across each other

friction magnetism static weight

9. What is Newton's Third Law?

- A The bigger the unbalanced force the bigger the acceleration
- B If A exerts a force on B, then B exerts an equal but opposite force on A
- C If a body is at rest and the forces acting on it are balanced, then the body will remain at rest

10. The upward force acting on an object submerged in a fluid is called

drag. weight. pressure. buoyant force.

11. The force that pulls falling objects toward Earth is called
air resistance. Central force. gravity. free fall.

12. Are mass and weight the same?
Yes No Sometimes

13. What will be different on the moon than on the earth?
Mass weight both 1 and 2 none of the above

14. If your mass is 40 kg, what is your weight on the Earth?
298 326 400 462

15. If you were on the Moon, there would be a change in your:
weight and mass weight mass volume

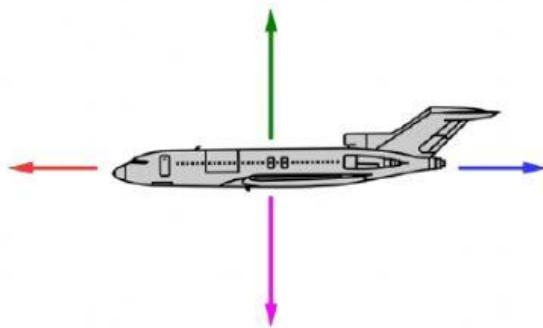
16. What do you multiply mass by to get the weight?
Gravity volume density energy

17. Which of the following materials will show elastic behaviour?
Glass window ceramic bowl rubber band clay flowerpot

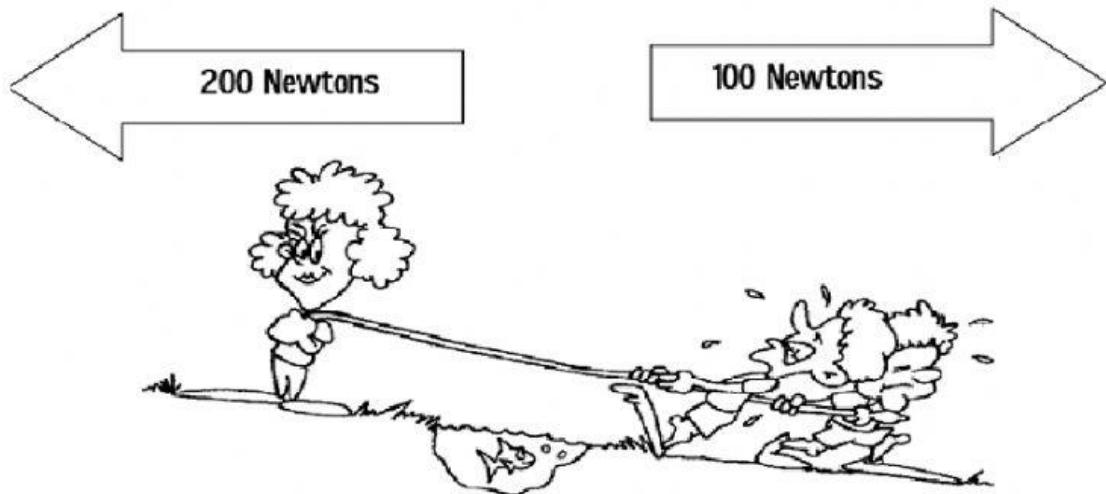
18. When a spring has been stretched beyond its _____ the device
will be damaged and cannot be used again.

19. Label the forces acting on the plane.

Air resistance Lift Gravity Thrust



20.



Look at the picture above and complete the following.

- A. The forces shown above are PUSHING / PULLING forces.
- B. The forces shown above are WORKING TOGETHER / OPPOSITE FORCES.
- C. The forces are EQUAL / NOT EQUAL.
- D. The forces DO / DO NOT balance each other.
- E. The stronger force is pulling to the RIGHT / LEFT.
- F. The weaker force is pulling to the RIGHT / LEFT.
- G. Motion is to the RIGHT / LEFT.

22. **Name the forces:** drag and drop to match correctly.

- i) A force which pulls you down.....
- ii) This force helps to hold things on fridge doors.....
- iii) This force rubs things away.....
- iv) This force helps a ship float.....
- v) A force that slows down things moving through air.....

friction air resistance upthrust gravity magnetism