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KS3 Bitesize

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Forces - Test

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- Which of these is the best way to measure a force?
 - using a force meter
 - using a ruler
 - using a thermometer
- Forces can be:
 - pushes only
 - pulls only
 - pushes and pulls
- What is the unit of force called?
 - the newton, n
 - the newton, N
 - the neutron, N
- Why does an astronaut weigh less on the Moon than on the Earth?
 - the Moon has no atmosphere.
 - the Moon has no gravity.
 - the force of gravity is weaker on the surface of the Moon than on the surface of the Earth.
- What is the weight of a 20 kg box on the Earth?
 - 2 N
 - 20 N
 - 200 N
- What is the pressure exerted by a man standing on one leg?
 - Half of the pressure he exerts when standing on two legs.
 - The same pressure as he exerts when standing on two legs.
 - Twice the pressure he exerts when standing on two legs.

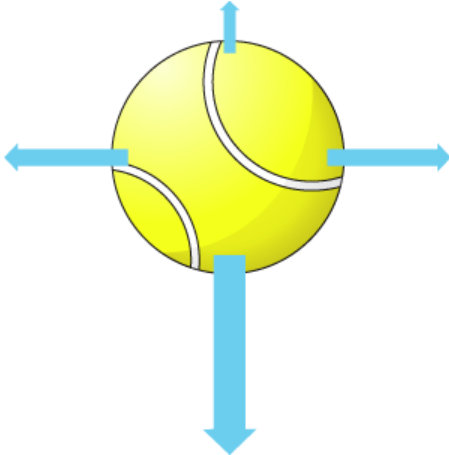
7. The weight of a 100 N laser printer is spread over 0.5m^2 . What is the pressure it exerts?

- 50 N/m^2
- 200 N/m^2
- 500 N/m^2

8. What can we say about the forces on an object that is not moving?

- there must only be one force acting on it
- the forces must be balanced
- it must be very heavy

9. The arrows in this diagram represent the sizes of forces acting on a stationary tennis ball. What will happen to the tennis ball?



- it will stay still
- it will start to move upwards
- it will start to move downwards

10. What happens to the air resistance on a car as the car goes faster?

- it decreases
- it stays the same
- it increases

11. A force of 4 N acts on a lever 2 m from the pivot. What is the moment?

- 8 Nm
- 6 Nm
- 2 Nm

12. One way to increase the turning force on a spanner is to:

- use a shorter spanner
- use a longer pivot
- use a longer spanner

Check score