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5. Put these words in the correct boxes to show the equation for calculating weight.



6. Calculate the weight (in Newtons) of these aliens on their home planet. Type the answer only in the space.



$m = 20\text{kg}$   
 $g = 34\text{ m/s}^2$   
 \_\_\_\_\_ N

**A**



$m = 11\text{kg}$   
 $g = 3\text{ m/s}^2$   
 \_\_\_\_\_ N

**B**



$m = 45\text{kg}$   
 $g = 9\text{ m/s}^2$   
 \_\_\_\_\_ N

**C**



$m = 89\text{ kg}$   
 $g = 12\text{ m/s}^2$   
 \_\_\_\_\_ N

**D**

6b. Which alien lives on a planet that has gravity closest to that on Earth? Alien \_\_\_\_\_

7. Calculate the resultant forces below.

				
RESULTANT FORCE / N				
DIRECTION				

8. Calculate the pressure using the following equation: **Pressure = Force / Area**. Write the answer only in the space.

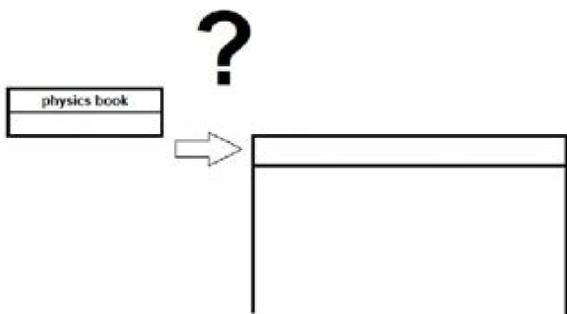
- Force is 560 N and the area is 28 m/s \_\_\_\_\_ Pascals
- Force 7200 N and area is 8 m/s \_\_\_\_\_ Pascals
- Force is 8525 N and 5 m/s \_\_\_\_\_ Pascals

## Newton's law of universal gravitation

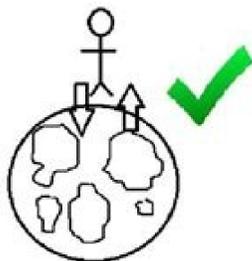
Newton determined that every object in the universe attracts every other object with a force.

But that seems untrue.....

My book isn't attracted to my desk and my water bottle isn't attracted to the wall.



Yet my body is attracted to the earth (gravitational force). When I jump up, I get pulled straight back down to earth. Why are these contradicting things happening?



It seems that some things are attracted to each other and others are not.

### Question 11

#### Vocabulary

Match the word with the definition by writing the correct letter

Word	Definition
1. X-axis	Vertical Line
2. Force	Energy stored
3. Y axis	Energy of motion
4. Unbalanced	
5. Friction	Horizontal line
6. Energy transformation	$Speed = \frac{d}{t}$
7. Potential Energy	
8. Kinetic Energy	PUSH      PULL 
9. Inclined plane	
10. Speed formula	



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