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Balanced and Unbalanced Forces (Worksheet)

Q.1. Write T or True if the statement is true; write F or False if the statement is false.

- _____ 1. An unbalanced force always causes a change in motion.
- _____ 2. Forces have a magnitude and a direction.
- _____ 3. When forces are balanced, the object does not move.
- _____ 4. If the net force on an object is not zero, the forces acting on the object are balanced.

Q.2. Fill in the blanks with suitable words.

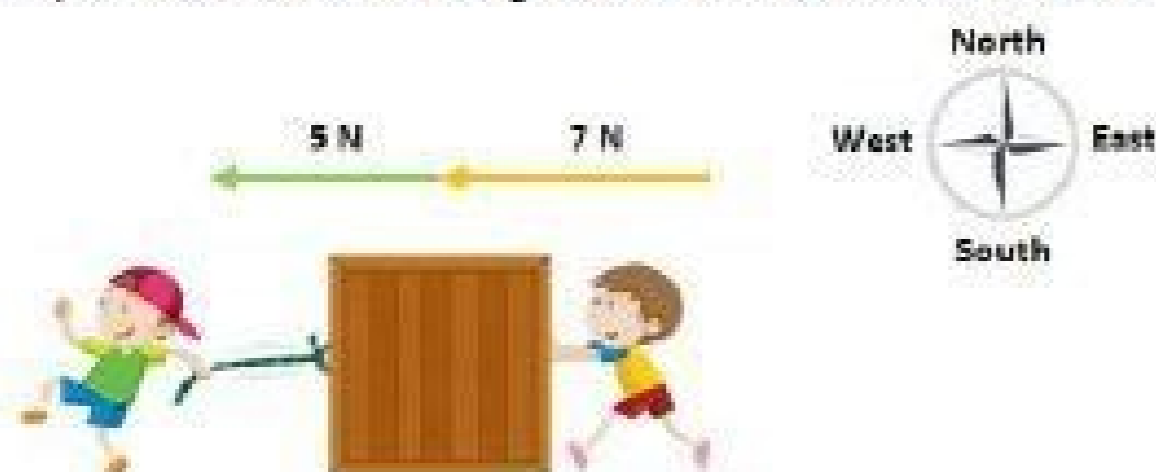
- a) A(n) _____ is a push or a pull that causes an object to undergo a change in speed, a change in direction, or a change in shape.
- b) In SI units, the standard unit of force is the _____.
- c) _____ forces are those that are opposite in direction and equal in size.
- d) The _____ on an object is the combination of all the forces acting on it.
- e) When two forces act in the _____ directions, the net force is the sum of the two forces.
- f) When two forces act in the _____ directions, the net force is the difference between the two forces.

Q.3. What is the magnitude of the net force in the following picture?



- a) 30 N
- b) 20 N
- c) 10 N
- d) 50 N

Q.4. In the picture below, what is the magnitude of the net force and in what direction?




- a) 2 N to the East
- b) 12 N to the West
- c) 2 N to the West
- d) 12 N to the East

Look at the pictures. Tell if the forces shown are balanced or unbalanced.

1. 

2. 

3. 

4. 

Name: _____

BALANCED or UNBALANCED FORCES?

Directions: Cut out the boxes on the side. Glue them into correct column.

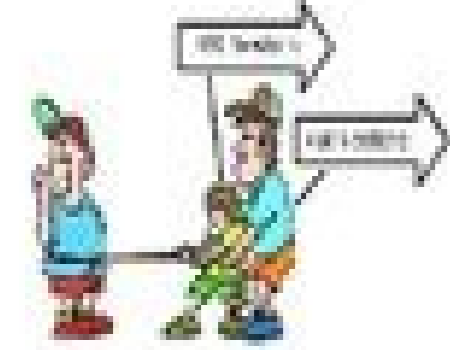
Balanced Forces

Unbalanced Forces

- If you push against an object, the object pushes back with an equal but opposite force.
- Causes a change in the motion of an object.
- Two equal size forces acting in opposite directions on an object.
- Does not cause a change in motion.
- Will cause a moving object to slow down or speed up.
- Hanging and sitting objects are examples of these forces.
- This will cause a still object to go into motion.
- Images a game of tag-of-war where one team pulls harder than the other. The weaker one team to move toward the center.
- Two forces acting on an object that are not equal.
- The object stops and/or continues moving at the same speed and in the same direction.

Name: _____

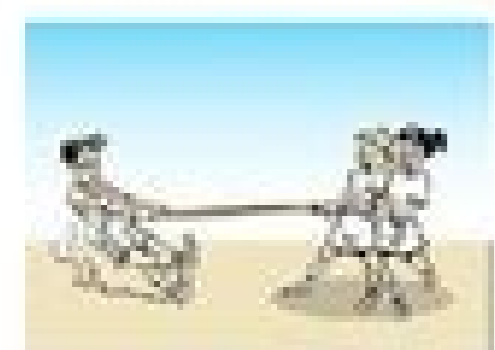
Directions: Label the pictures either "Balanced force" or "Unbalanced force"



1.



2.



3.



4.

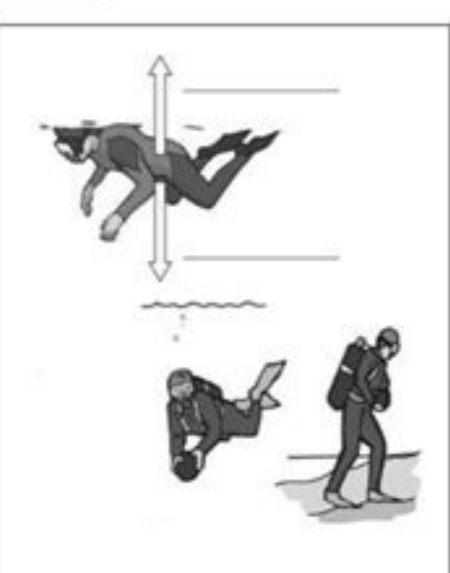
Come up with your own example of an unbalanced force and write or draw it below:

13. Write the forces below to show whether they are **Contact** or **Non-Contact** forces:

air resistance friction gravity magnetic force static electricity water resistance

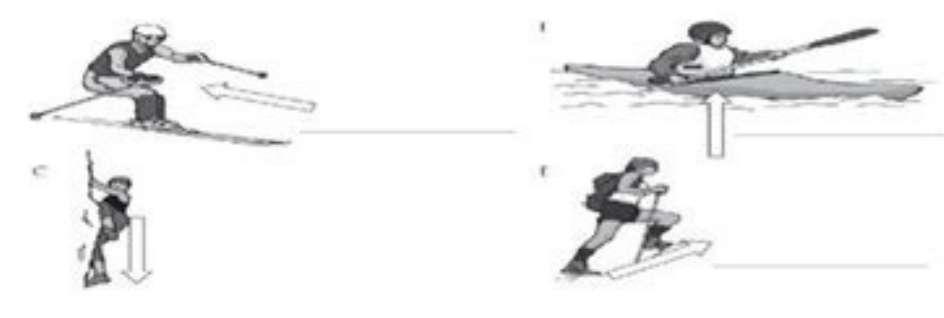
Contact	Non-contact

14. Josh is learning to dive. He is seen floating in the water. Label the two forces.



Josh picked up a rock from the sea bed. It was easy to lift. It felt much heavier when he carried it up the beach. Why did the stone feel lighter when it was under the water?

15. Look at the pictures. Write the names of the forces next to the arrows.



What are the balanced and unbalanced forces.

the pavement, while the pavement is pushing backwards. They need to jump to the main content xlog in the strength to lift, Turn, move, open, close, push, pull, etc. Save a lot of planning time, for as little as £ 1.00. Professor of Experienced Science - 15 years of teaching. There is no practice In this lesson. Author of Resources Commissioner. L4 Å c
å, ~ "I can correctly draw a force diagram and å €

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