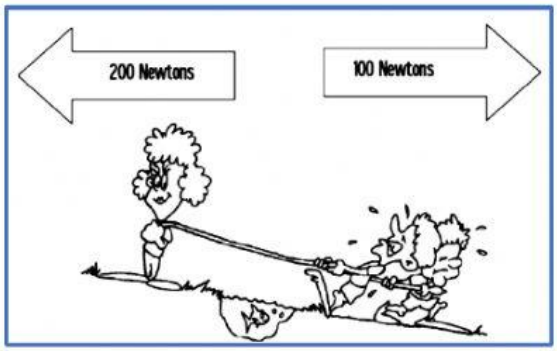
Worksheet 1

Subject: Science Topic: Resultant Force Pratomsuksa: 5/….. No. …..

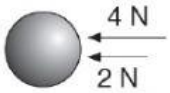
Name: …… ……. D/M/Y: …… Teacher: Randy

A. Look at the diagram below and circle the best answer.



1. The forces shown are (pushing / pulling) forces.
2. The forces shown are in the (same direction / opposite direction).
3. The Resultant Force is (300N / 100N).
4. The forces shown are (balanced / unbalanced) forces.
5. The direction of the Resultant Force is to the (right / left).

B. The stationary balls are being pushed by different forces. Calculate the resultant force and write the direction of its movement.

1. 

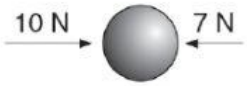
Resultant Force: _____ Direction: _____

2. 

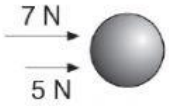
Resultant Force: _____ Direction: _____

3. 

Resultant Force: _____ Direction: _____

4. 

Resultant Force: _____ Direction: _____

5. 

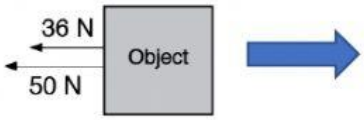
Resultant Force: _____ Direction: _____

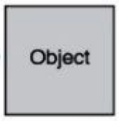
6. 

Resultant Force: _____ Direction: _____

C. Answer the questions below.

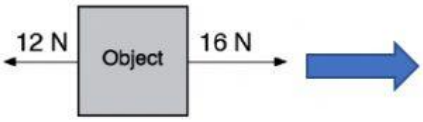
1. An object is pulled by two forces 36N and 50N in the same direction as shown below. What is the resultant force acting on the object? Draw an arrow in the diagram to represent the resultant force.

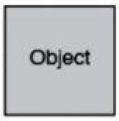




Resultant Force: _____

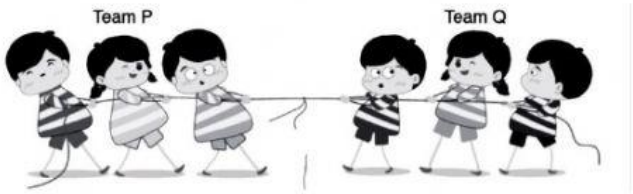
2. Two forces are acting on an object in the opposite directions as shown below. What is the resultant force acting on the object? Draw an arrow in the diagram to represent the resultant force.





Resultant Force: _____

The diagram below shows two teams playing the game of tug of war. For questions 3 and 4, refer to the diagram.



3. If team P is pulling with a force of 33 N, what is the force exerted by team Q to make the game a draw?

Answer:

_____

4. If team P is pulling with a force of 46 N and team Q is pulling with a force of 38 N, which team will be pulled toward the marker? What is the resultant force that pulls the team toward the marker?

Answer:

_____

_____