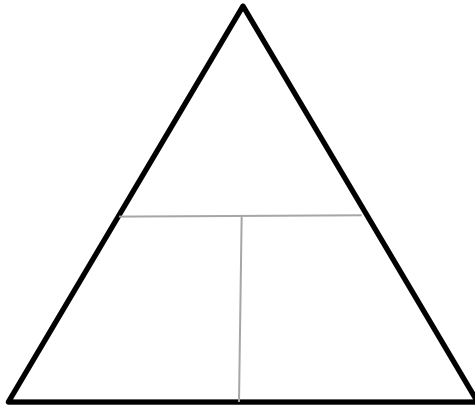


FORCE

Name: _____

Directions. Complete each part of this worksheet! Make sure you have units AND direction!

Complete the force triangle.



Calculate net force.

1.



Net Force:

2.



Net Force:

3.



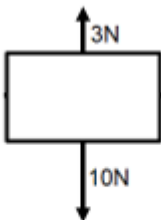
Net Force:

4.



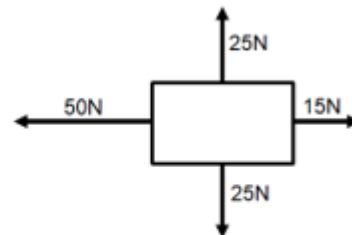
Net Force:

5.



Net Force:

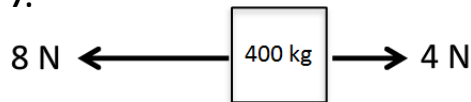
6.



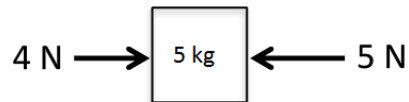
Net Force:

Calculate acceleration.

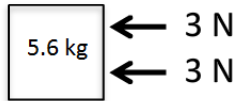
7.



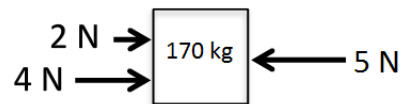
8.



9.

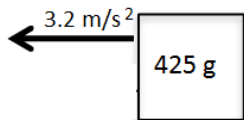


10.

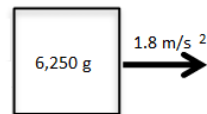


Calculate Force.

11.



12.



Word Problem Practice.

13. A construction worker pushes a wheelbarrow with a total mass of 50.0 kg. What is the acceleration of the wheelbarrow if the net force on it is 75N?

14. A van with a mass of 1500 kg accelerates at a rate of 3.5 m/s² in the forward direction. What is the net force acting on the van?

15. A bowling ball rolled with a force of 15 N accelerates at a rate of 3 m/s²; a second bowling ball rolled with the same force accelerates at 4 m/s². What are the masses of the two bowling balls?

16. A force of 250 N is applied to an object that accelerates at a rate of 5 m/s². What is the mass of the object?

17. A shot-putter exerts an unbalanced force of 140 N on a shot, which gives it an acceleration of 19 m/s/s. What is the mass of the shot?