Name: _____ Class: _____

1. Which of the following instrument is used to measure force?

A. Ruler B. Spring balance C. Thermometer

2. This is used to represent the combined effect of two or more forces in magnitude and direction.

A. Electrostatic force B. Gravitational force C. Net Force

3. Two forces are acting on a box as shown in *figure below* .

What is the resultant force?

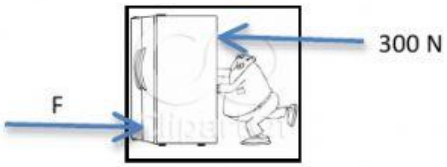
A. 9 N to the left B. 27 N to the left C. 27 N to the right

4. Two forces are acting on a box as shown in *figure below.*

If the resultant force is 10 N to the right, what is F?

A. 15 B. 25 C. 35

5. The *Figure below* shows Weerayut pushes a heavy cupboard with a force of 300 N but the cupboard doesn't even move.



What is the magnitude of the force, F and the resultant force acting on the cupboard?

	Force (N)	Resultant force (N)
A	300	300
B	0	300
C	300	0

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6. Which is the correct unit for acceleration?

a. m/s b. m/s^2 c. m^2/s

7. How much force is needed to accelerate a 42 kg skier at 3 m/sec^2?

a. 14 Newton b. 45 Newton c. 126 Newton

8. What is the acceleration of a 30 kg object pushed with a force of 900 Newtons?

a. 30 m/s^2 b. 27,000 m/s^2 c. 870 m/s^2

9. A force of 180 N is applied to an object that accelerates at a rate of 3 m/s^2. What is the mass of the object?

a. 90 kg b. 60 kg c. 540 kg

10. Study the figure below. What is the acceleration of the object?

a. 8 m/s^2 b. 9m/s^2 c. 2m/s^2

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