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Grade -10	artment of Education, Sabaragamuwa Province Translated by: M.G.P. Miyanadeniya	ool
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1st term -Revision exercises

1. 	What is meant by the force?
2.	
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3.	Write the Newton's 1 st law about the motion.
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4.	If a bus which is at rest, starts to move without the knowledge of a passenger in it, that passenger would fall in the backward direction. Explain this incident using Newton's laws.
5.	1 2 7
••••	
6.	What is the standard unit of measuring force?
7.	Define the Newton.
••••	

8. What is the force required to give an acceleration of $3ms^{-2}$ to a 4kg mass?

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9. Complete the following table.

Force (N)	Mass (kg)	Acceleration (ms ⁻²)
	500 g	$4ms^{-2}$
50 N		2.5 ms^{-2}
100 N	20 kg	
	60 kg	6 ms^{-2}
	85 kg	3.5 ms^{-2}
250 N		5 ms^{-2}
180 N	9 kg	

10. Write the Newton's 3rd law.

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11. Fill in the blanks.

is a measurement of how difficult it is to stop th	e mo	otio	n
of an object. It depends on two factors, which are		an	ıd
The unit of it is and	it	is	a
quantity.			

12. Write an expression for the momentum.

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13. What is the momentum of a vehicle with a mass of 3000kg which is moving at a velocity of 30ms⁻¹.

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14. Explain the action and the reaction of following incidents.

- I. Swimming
- II. Rowing a boat
- III. A balloon which is moving upward.
- IV. A skyscraper which is moving upward.

15. Explain what is meant by weight of an object.

..... 16. The mass of a man is 80kg. Find his weight $(g=10ms^{-2})$ 17. On the moon, the gravitational acceleration is about 1/6 of that on the earth. Calculate the weight of the above man if he is on the moon. 18. The weight of an object is 10N and its momentum is 12kgms⁻². Due to a force applied in the direction of motion, the velocity of the object increased to 18ms⁻¹ during 4s. Find the force exerted on that object.