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Answer the following questions :-

1 State Newton's first law of motion. What informations we get from this law of motion ?

2 Define inertia. How is it measured?

3 Define linear momentum. State its unit and dimensional formula.

4 Name the physical quantity which is the measure of the rate of change in linear momentum.

5 State impulse -momentum theorem.

6 Why does a fielder pulls his hands while catching the ball?

7 Derive the formula for the measurement of force using Newton's 2nd law of motion

8 Give two examples where inertia of rest is followed.