The City School

Boys Campus North Nazimabad

CLASS-9 physics

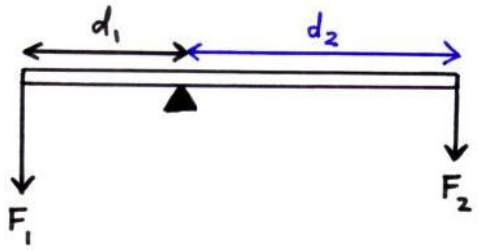
CLASS WORK

Q.1. Define the following terms

Moment of force, pivot, force, centre of gravity .

Q.2. describe Principle of Moment with the examples of everyday life

Q.3. calculate clock wise and anti clock wise moment of the given picture to verify principle of moment:



Where,F1=20 N, d1=2m, F2=30N, d2=?

Q. 4.lab activity: To calculate centre of gravity of irregular shaped objects by using Plumb line:

HOME WORK

LAB ACTIVITY REPORT

Practice questions

Q.1. The correct condition for the state of equilibrium in principle of moment is:

I. distance between two objects in beam balance should be same
II. The resultant force should be zero.
III. The weight on both the sides should be same.
IV. The tension should be equal on both the sides.

Q.2. The force applied by a lady is 2 N and the moment of force is 16 N m, the distance of pivot from the effort would be:

I. 32 N
II. 8N
III. 14N
IV. 18N

Q.3. The door hinge is about 1.5 m away from the handle, and a boy applies a force of 4 N. The moment of force will be:

I. 5.5N
II. 2.66N
III. 6N
IV. 2.5N