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## **<u>11. Turning effect of a force</u>**

- > By applying a force, we can rotate or turn an object around a given point.
- 1. Give 3 instances where an object can rotate by applying a force.



III. What is the measuring unit of moment?

Since the moment is a tendency for rotation, depending on whether the rotation is clockwise or anticlockwise, the moment too has to be clockwise or anticlockwise.
Find the directions of following instances.



4. Calculate the moment of the following system.



a.	Anti-clock wise Moment	t = X
		=X
		=
b.	clockwise Moment	=X
		=X
	TALL AND A	=

- c. Is the above system rotate or in equilibrium?
- 5. When a couple of forces is applied on an object, the resultant may be a moment.



A couple of forces acts on the tap head.

- What are the features of the moment of the couple force?
- 6. Complete the following equation related to the moment of the couple force.
  - a. Moment of the couple force = ..... X ......
  - b. Calculate the moment of the couple force.



c. What is the direction of the moment?



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