
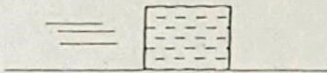
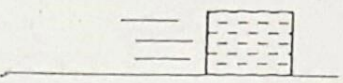
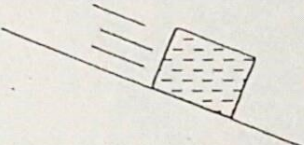
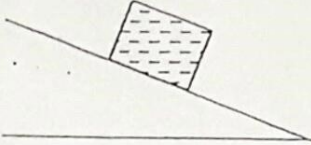
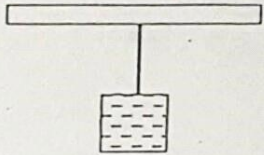
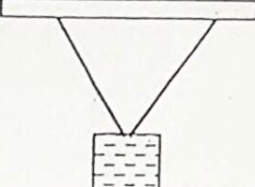
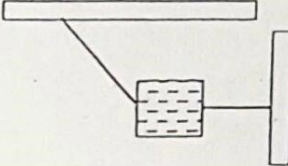
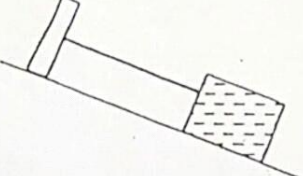

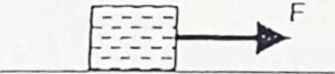
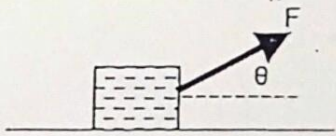


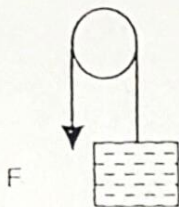
## FORCE DIAGRAMS

For each situation, draw a force diagram, labeling each force you have identified.

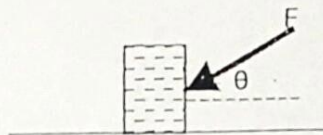
<p>1. Object lies motionless.</p> 	<p>2. Object slides at a constant velocity without friction.</p> 
<p>3. Object slides to a stop due to friction.</p> 	<p>4. Object slides without friction.</p> 
<p>5. Friction prevents sliding.</p> 	<p>6. An object is suspended from the ceiling.</p> 
<p>7. An object is suspended from the ceiling.</p> 	<p>8. The object is motionless.</p> 
<p>9. The object is motionless.</p> 	<p>10. The object is motionless.</p> 
<p>11. The object is pulled by a force as shown.</p> 	<p>12. The object is being pulled by a force at an angle to the surface.</p> 



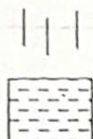
13. The object is pulled upward at a constant velocity.



14. The object is pushed by a force, applied downward at an angle.



15. The object is falling (no air resistance)



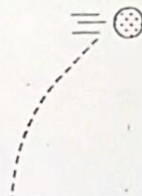
16. The object is falling at a constant (terminal) velocity.



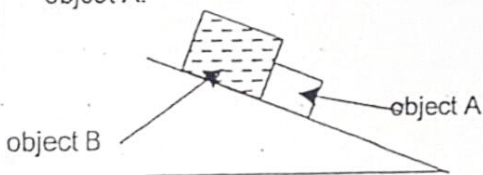
17. The ball is rising in a parabolic path.



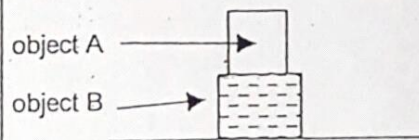
18. The ball is at the top of a parabolic path.



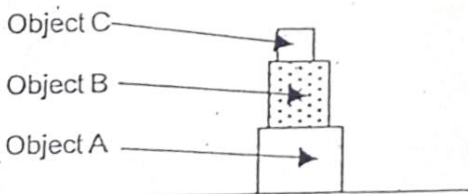
19. System is at rest. Draw a force diagram for object A.



20. System is at rest. Draw a force diagram for object A.



21. System is at rest. Draw a force diagram for object A.



22. Moving to the right at a constant velocity. Draw a force diagram for Object A.

