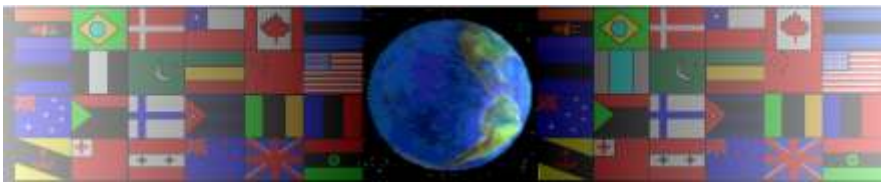
MOMENTS OF FORCE

On behalf of The World Association of Technology Teachers

W.A.T.T.

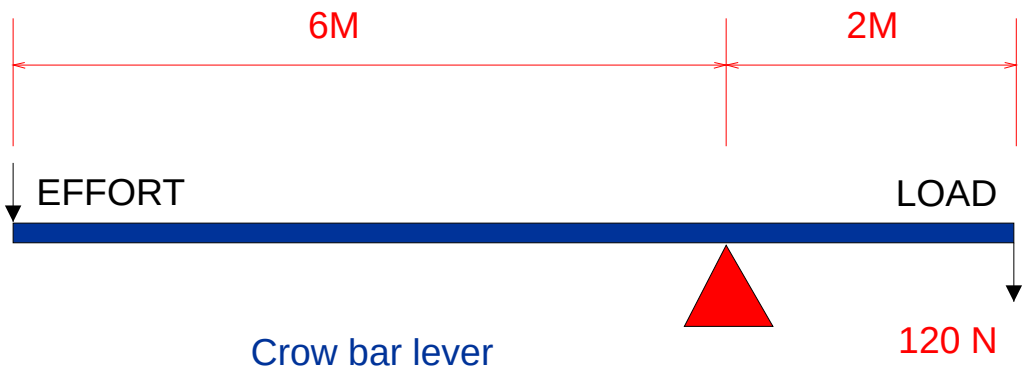


World Association of Technology Teachers

This exercise can be printed and used by teachers and students. It is recommended that you view the website (www.technologystudent.com) before attempting the design sheet .

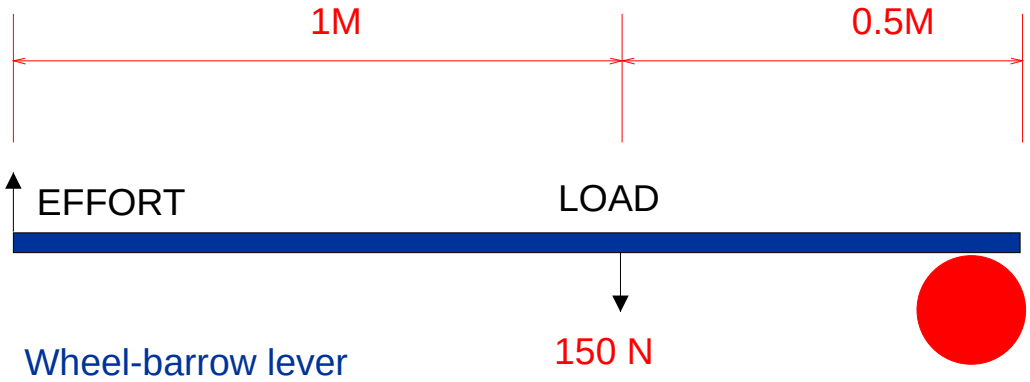
MOMENTS OF FORCE

3. Another crow-bar is used to lever a load of 120N. The load is 2m from the fulcrum and the effort is 6m from the fulcrum. What effort is required to move the load ?



Crow bar lever

4. A wheel-barrow is used to lift a load of 150N. The wheel acts as the fulcrum. Calculate the effort required.



Wheel-barrow lever

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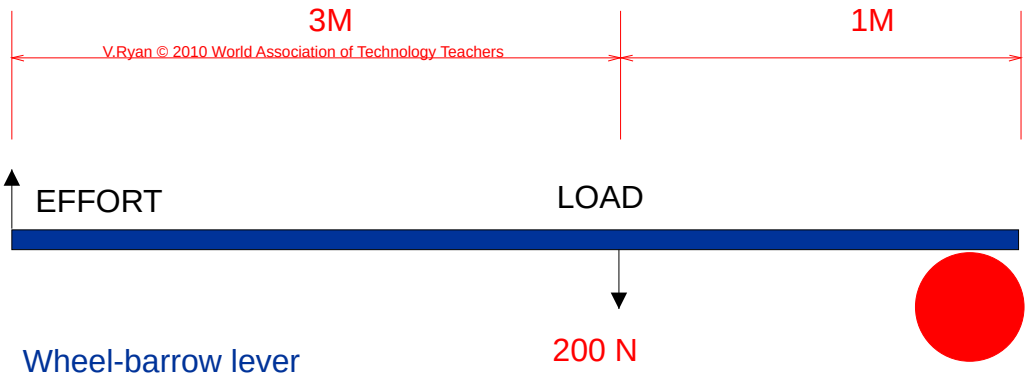
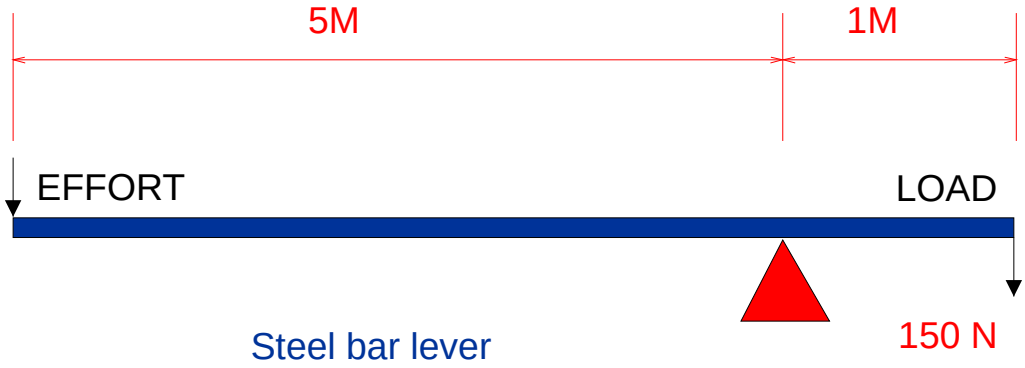
5. A wheel-barrow is used to lift a load of 200N. The wheel acts as the fulcrum. Calculate the effort required.



6. A metal bar is used to lever a load of 150N. The load is 1m from the fulcrum and the effort is 5m from the fulcrum. What effort is required to move the load ?



7. Another metal bar is used to lever a load of 200N. The load is 3m from the fulcrum and the effort is 2m from the fulcrum. What effort is required to move the load ?