

# Shear and Moment Diagrams

## REFERENCE

Statics equations:  $\sum F = 0$ ,  $\sum M = 0$ . Definition of moment:  $M = Fd$ ,  $d$  is the "moment arm"

## GIVEN THE FOLLOWING SCENARIOS...

Calculate the reactions for each beam. Draw shear and moment diagrams for each. Calculate the maximum internal bending moment in each beam. Use <http://interactivestructures.org/> to check your answers. Remember to label your forces with units and direction when providing the final answers.

