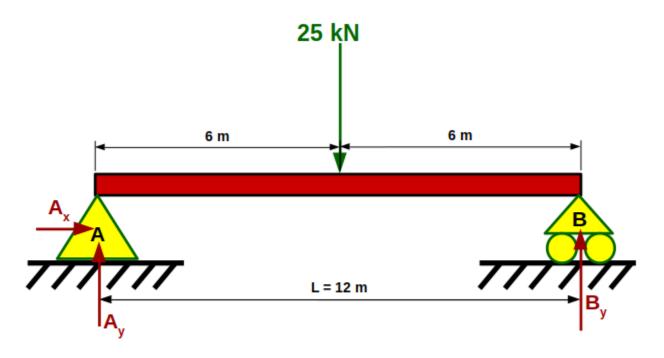


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This simply supported beam is supported by a pin at A, a roller at B, and has a point load at the midspan, find the reactions at A and B.



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Answers (refer to solutions for detail)

 $\mathbf{A}_{\mathbf{x}} = \mathbf{0}$

 $A_y = 12.5 \text{ kN}$

 $\mathbf{B}_{y} = \mathbf{12.5} \ \mathbf{kN}$