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momentum is the product of the mass and velocity of an object  
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is a vector quantity possessing a magnitude and a direction if  $m$  is an object's mass and  $v$  is its velocity also a vector quantity then the object's momentum  $p$  is in the international system of

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unknown to be solved for similarly to how  $x$  is thought of as an unknown number to be solved for in an algebraic equation like  $x^2 + 3x - 2 = 0$  however

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