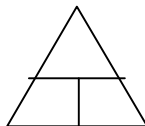


Showing Work on Calculations

Physical Science
Mr. Pickett

Problem: If a 10N force accelerates an object at 5 m/s^2 , how massive is the object?

G	Given - What values are given in the question?	Force (F) = 10N Acceleration (a) = 5 m/s^2
U	Unknown – What value is unknown? What are you asked to solve for?	Mass (m)
E	Equation – What is the equation that will be used to solve for the unknown value? (Use the triangle to rearrange the equation)	$m = \frac{F}{a}$
S	Setup – Write the equation with the given values included.	$m = \frac{10\text{N}}{5 \text{ m/s}^2}$
S	Solve - Use a calculator to solve the problem. Check to make sure the answer makes sense. Use the proper unit with you answer.	2 kg



The work on your paper would look like this:

Force (F) = 10N Acceleration (a) = 5 m/s ²
Mass (m)
$m = \frac{F}{a}$
$m = \frac{10\text{N (kg x m/s}^2\text{)}}{5 \text{ m/s}^2}$
2 kg

Units

mass	kilogram	kg
force		
velocity		
speed		
work		
power		
momentum		
distance		
time		
energy		