1. Newton's Second Law tells us how to calculate the acceleration if we know the force and the mass.

$$F = m a$$

We are interested in determining the acceleration, so we divide both sides of the equation by m to get

$$F/m = a$$

 $a = (20 \text{ N}) / (5 \text{ kg})$
 $a = 4 \text{ N} / \text{kg} = 4 (\text{kg m}/\text{s}^2) / \text{kg} = 4 \text{ m}/\text{s}^2$