

# Newton's 2<sup>nd</sup> Law Examples

$$a = \frac{F}{m}$$

## Class Example

### Example 1

A 1200 kg car accelerates at 6.5 m/s/s. What force does the engine provide?

## Your Turn

### Example 2:

You kick a 1 kg ball with 300 N of force. What is the acceleration of the ball?

# Newton's 2<sup>nd</sup> Law Examples

$$a = \frac{F}{m}$$

## Class Example

### Example 3

You throw a ball with 200 N of force and it accelerates at 50 m/s<sup>2</sup>. What is its mass?

## Your Turn

### Example 4:

You throw a ball with 400 N of force and it accelerates at 20 m/s<sup>2</sup>. What is its mass?