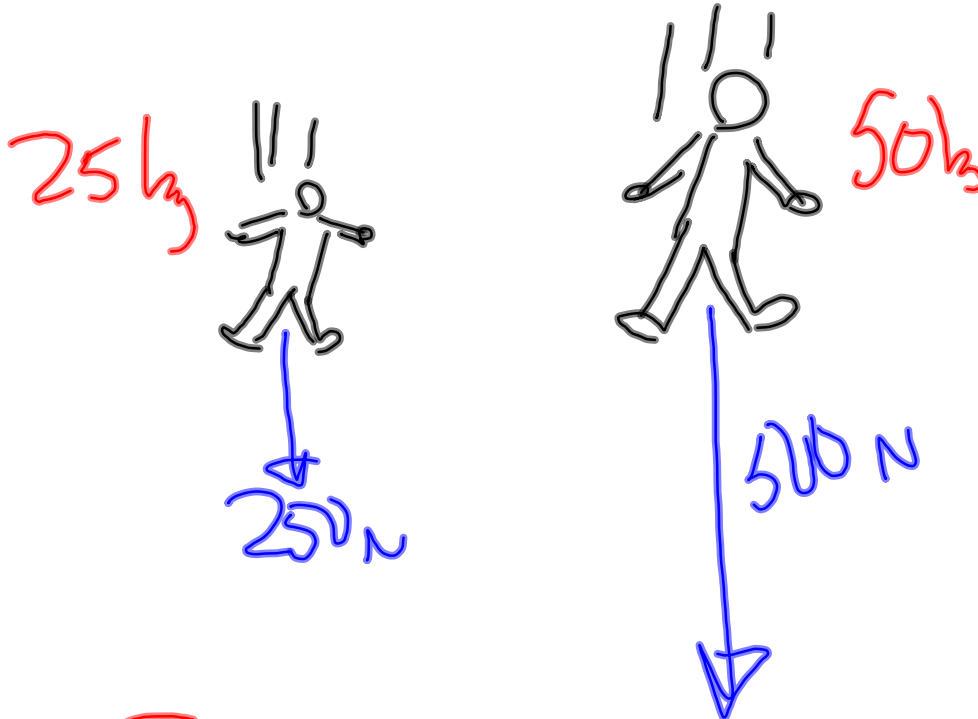


WHY DON'T HEAVIER OBJECTS FALL FASTER?

(1 kg weighs 10 N)



$$a = \frac{F}{m} = \frac{250\text{ N}}{25\text{ kg}} = 10\text{ m/s}^2$$

$$\frac{500\text{ N}}{50\text{ kg}} = 10\text{ m/s}^2$$

LIGHTER OBJECTS HAVE LESS FORCE, BUT THEY ALSO HAVE LESS MASS WHICH MAKES IT EASIER TO ACCELERATE

HEAVIER OBJECTS HAVE MORE FORCE, BUT THEY ALSO HAVE MORE MASS WHICH MAKES IT TOUGHER TO ACCELERATE