Let's Try one together

a) A German shepherd dog has a mass of 31 kg. What would be his weight on earth?

Weight = $31\,\text{kg} \times \frac{9.8\,\text{N}}{1\,\text{kg}}$

$= 303.8\,\text{N}$

÷2.2

b) Max mass (kg) is 150 lbs = 68kg, what is his weight on earth?

Weight = mass $\times \frac{9.8\,\text{N}}{1\,\text{kg}}$

$= 68\,\text{kg} \times \frac{9.8\,\text{N}}{1\,\text{kg}}$

$= 666.4\,\text{N}$

c) Moon Gravity = $\frac{1.625\,\text{N}}{1\,\text{kg}}$

You Try

Assume you have a mass of 50 kg. What would be your weight on earth? (9.8 N / Kg)

Weight = mass x Force

= 50kg x $\frac{9.8N}{1kg}$

= 490 N

Supplies soon needed for activity