## **Rack & Spur Gear Identification Guide**

## To identify Spur Gear:

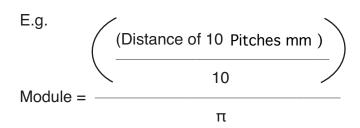
- a) Count the number of teeth in a gear
- b) Measure O/D (Outside Diameter) in mm
- c) Divide O/D by number of teeth plus 2, to give MOD

E.g. 20 teeth pinion with 55mm O/D:

$$Mod = \frac{55}{22} = 2.5$$

## To calculate Rack MOD (Module):

- a) Measure distance of 10 (ten) Pitches, as shown below
- b) Divide this number by 10 (ten)
- c) Then divide the resulting number again by  $\pi$  (pi), this would give us the required Module.



Distance of 10 Pitches = 78.53 mm

Distance of one Pitch = 7.853 mm

Required Mod = 
$$\frac{7.853}{\pi}$$
 = 2.5

## **Rack Pinion Mounting Distance Sketch**

