Roller Chain Drive Design Calculator		
Chain length, in pitches and exact length Calculator		
Blue cells editable		
number of teeth in the driving sprocket N_1 =	21.00	#
number of teeth in the driven sprocket N_2 =	76.00	#
center distance C =	470.000	mm
chain pitch p =	12.700	mm
Results		
Eq. 1, Chain length L =	124.59	pitches
Eq. 1 round up chain length nearset even integer L =	126.00	pitches
Eq. 2, exact center distance between spockets C =	479.25	mm
Eq. 3, pitch diameter drive D_1 =	84.89	mm
Eq. 3a, pitch diameter drive D ₂ =	307.23	mm
Eq. 4, angle of contact driving sprocket θ_1 =	2.673	rad.
Eq. 4, angle of contact driving sprocket θ 1 =	153.174	deg
Eq. 4a, angle of contact driving sprocket θ_2 =	3.610	rad.
Eq. 4a, angle of contact driving sprocket θ_2 =	206.826	deg