1.	NCEA L2 Ast. 1 $\Delta p = Ft$. So $F = \frac{60N}{900}$	solutions. = 6000 N.
2.	$\alpha = F/m = \frac{6000N}{1 \text{kg}} = 60$	
	Alternatively: $a = \frac{\Delta v}{t} = \frac{60}{0}$	
	Then the length of the barrel is $d = V_1 t + \frac{1}{2} a t^2$ $= 0 \times 0.01 + \frac{1}{2} \times 2000 \times 0.01^2$ $= 0.3 \text{ m} \text{(i.e. } 30 \text{cm)}.$	
3		
	b) (0 7 30 m ⁻¹	In had relocity a 60ms 1/30°.
	51.96m,	MOON
		Max height: sim (lawning, but a: -1.62m)
	Time taken to reach Mor healt:	Time to reach mon hey: 18.52 sec.
-	The read to full (45.87+1) M: 5 t=\frac{2da}{a} = \frac{2.46.87}{9.81} = 3.0912sec. (noting V:=0). So total time of	E= 1 22613.0 = 1 1.0 Sec.
	Del in alled a	So total flight time is 37.1 rec. Dishu transled is 51.96 x 37.1
	Dα = 51.96 × 6.15 = 320 m.	= 1900 m ·

