Thysics 160, Extra Credit #1

Dimensions OF Physical Quantities

- a) Length, MASS, AND time are the 3 base dimensions
- b) Volume is length about if 23
- c) speed is distance divided by time of t
- d) Acceleration (Sorry, you might have to look-this up in chapter 2)
 is valority divided by time = 2 0 . . .

 - 21 Car travels in tx direction with VAU = 6.25 m/s for 4s. How Fer does ONT 98?

VAN = DX = VAN DX = (6.25m/s)(4s) = 25m

2.3 NORMAL you doine at 105km/h for Zh, 20min, but Friday
you drive 70km/h. How much longer?

(Nest PAGe)

the distance is the same for both trip

SPN = 105 km/n 15th = 2h, 20 nin

NORMAL

d=(Spav)At

CAN'T MU Hiply Min by En, so Zh+ ZOMIN = Zh+ ZOMIN x th = Zhh

d=(165km)(28h) = 245 Km

Unit: En . h = Km

Sp= 70km/h

SPF = HF 3 D4F = FF 70 Km/h 3.54

Friday

How much longer of 3.5h-28h=1th= Hart Zh

70min = 70min