- 3. A 70.0 kg person on waxed skis is moving along a flat snow covered ground at 5.00 m/s until [FIND ON REF. TAGS)
- Draw a free-body diagram of all the forces acting on the person. (Be careful, is there an applied

2 Mx=0.05 VC=DMIS M=70.0Kg

V= 5.00 MIS



B. Calculate the force of friction acting on the person.

tion acting on the person.

$$F_{fK} = u_{K}F_{N} = (0.05)(686.7N) = \overline{34.3N}$$

$$F_{N} = F_{g} = m_{g} = (70.0K_{g})(9.81m/_{5}L) = (686.7N)$$
all force of the person?

C. What is the net horizontal force of the person?

D. Calculate the acceleration of the skier. (give magnitude and directi

E. Calculate the distance the skier covers until coming to a stop.
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4. What is the minimum force needed to start the motion of a 3.00 x 10 3 kg car with rubber wheels

M=3×103 Kg M5=0.85

Fig. Fig. = M_S Fig. = (0.85)(29.430 N) = 25.016 NFig. Fig. M_S Fig. M_S

moving at a *constant speed* on *dry* asphalt?

1.97x10 N