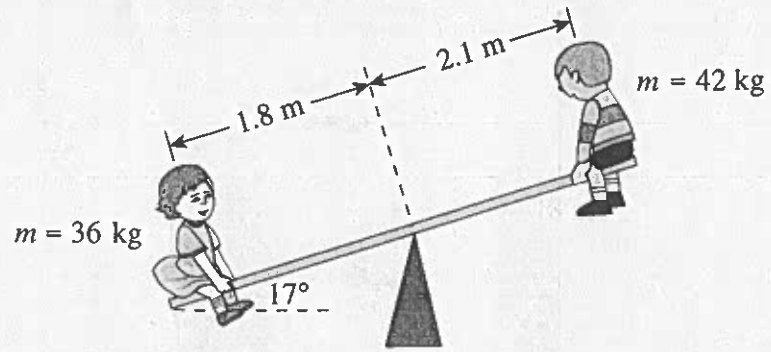
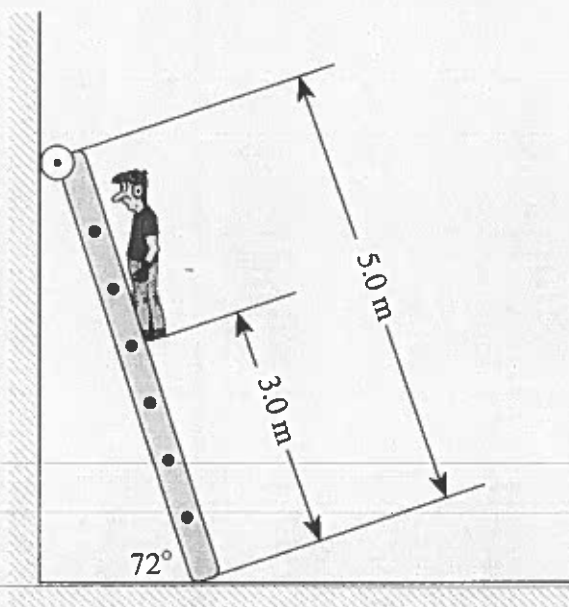


1. Two young children are playing on a seesaw.



What is the magnitude of the net torque, due to the two children, about the seesaw pivot in the position shown?

2. A 65 kg man is 3.0 m up a 5.0 m, 16 kg ladder leaning against a smooth wall at an angle of 72° as shown below.



What minimum force of friction between the ladder and the floor is required to keep the ladder from sliding? **(5 marks)**