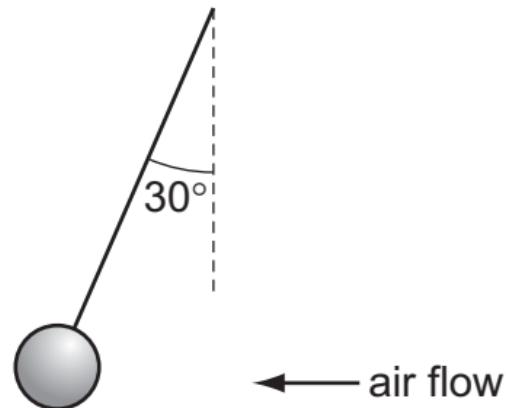


15 The diagram shows an experiment to measure the force exerted on a ball by a horizontal air flow.



The ball is suspended by a light string and weighs 0.15 N.

The deflection of the string from vertical is 30°.

What is the force on the ball from the air flow?

A 0.075 N

B 0.087 N

C 0.26 N

D 0.30 N

16 A student balances a 20 cm ruler on a fulcrum set at the 15 cm mark. She then places a 50 g