

6

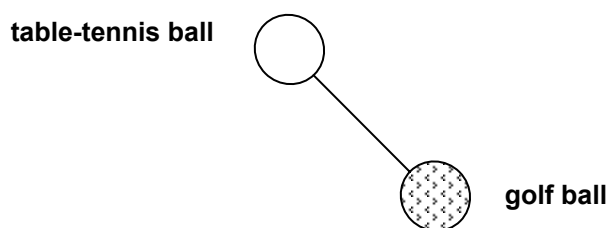
Tim wants to do an experiment to see how objects fall. He takes a golf ball and a table-tennis ball. These are the same size but the golf ball is quite a lot heavier than the table-tennis ball.

Tim ties the two balls together with a piece of string.



He stands on a stool, holding them side by side, 2 metres above the floor. He then drops them at the same moment.

Just before they hit the floor, Tim notices that the balls look like this:



Look at each of the statements below about this situation. For each, put a tick (✓) in one column to show if you think it is true or false.

		True	False	Don't know
a	A heavy object always falls faster than a lighter one.			
b	The force of gravity on the golf ball is bigger.			
c	The force of gravity on the two balls is the same size.			
d	The air resistance force on the table-tennis ball is bigger.			
e	The air resistance force on the two balls is the same size.			
f	The air resistance force is bigger, relative to the gravity force, for the table-tennis ball.			