





Name: Form:

Based on pages 18 and 19 of *Friction*

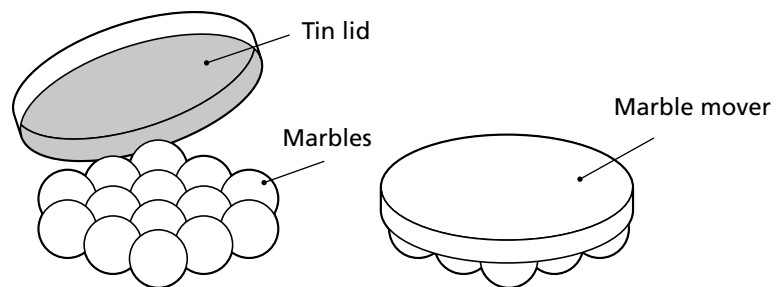
Sliding and rolling

Try this...

1. Put a block on a table and attach a forcemeter to it.
2. Pull the block along the table and record the pulling force you have to use to move it along. Record the size of the force here. 
3. Put four, round pencils under the block.
4. Pull the block along the table and record the pulling force you have to use to move it along. Record the size of the force here. 
5. How was the force in step 2 different from the force in step 4?



6. Make a marble mover by putting marbles under a tin lid, as the diagram shows.



7. Predict what will happen when you put a block on the marble mover and pull it.



8. Pull the block on the marble mover and compare your prediction with your result.
9. What will happen to the pulling force as you add more blocks to your roller or marble mover. Make a prediction.



10. How did the pulling force change as the number of blocks increased?



11. Explain your result.



