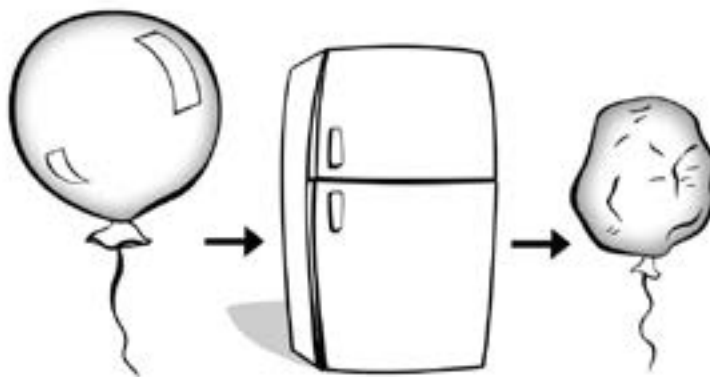


Hot and Cold Balloons



Moira filled a balloon with air. She tightly tied the balloon so no air could get in or out of the balloon. She kept the balloon in a warm room. An hour later she put the balloon in a cold freezer. When she took the balloon out 30 minutes later, it was still tied tightly shut. No air escaped from the balloon; however, the balloon had shrunk.

Moira wondered if the mass of the balloon (including the air inside it) also changed. Check off the answer that best matches your thinking.

- A** The mass of the warm balloon is less than the mass of the cold balloon.
- B** The mass of the warm balloon is greater than the mass of the cold balloon.
- C** The mass of the warm balloon is the same as the mass of the cold balloon.

Describe your thinking. Provide an explanation for your answer.
