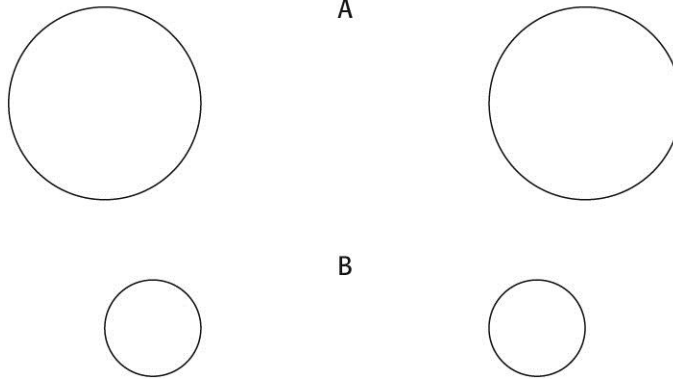


Concept Review

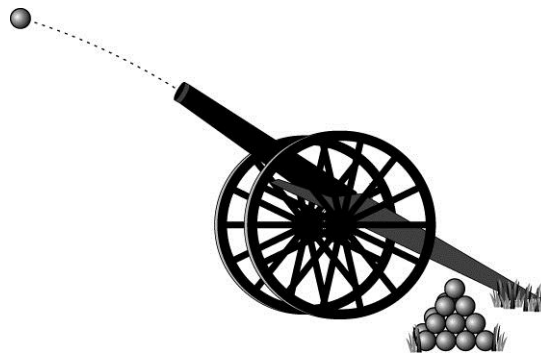
Section: Gravity

1. **Explain** why free-fall acceleration can be regarded as a constant for objects falling within a few hundred miles of Earth's surface.

2. **Identify** which pair of objects would have greater gravitational force between them in the examples below. Use the law of universal gravitation to explain your answer.



3. **Predict** the path of the cannonball below. To do this, draw a line in the direction of the cannonball's flight. Also draw and label the horizontal and vertical components of the cannonball's projectile motion.



4. **Calculate** the mass in kg of an object that weighs 1,225 N on Earth.
