

**17** Which statement is correct?

- A** A ball lands on the ground and bounces. The kinetic energy changes sign, because the ball changes direction.
- B** A car drives up a slope at a steady speed. The power generated by the engine equals the potential energy gained per unit time.
- C** An electric heater can be 100% efficient.
- D** It is impossible for momentum to be conserved in a collision.

**18** The diagram shows a pump called a hydraulic ram