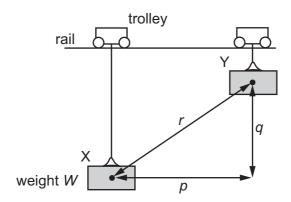
- 14 What is the average power output of a laser that can deliver 0.20 J of energy in 10 ns?
 - A 2nW
- **B** 20 mW
- **C** 200 kW
- **D** 20 MW
- **15** A weight *W* hangs from a trolley that runs along a rail. The trolley moves horizontally through a distance *p* and simultaneously raises the weight through a height *q*.



As a result, the weight moves through a distance *r* from X to Y. It starts and finishes at rest.

How much work is done on the weight during this process?

- **A** Wp
- **B** W(p+q)
- C Wa
- **D** Wr
- 16 The engine of a car exerts a force of 600 N in moving the car 1.0 km in 150 seconds.

What is the average output power of the engine?

- **A** 4.0 W
- **B** 4.0 kW
- **C** 90 kW
- **D** 90 MW
- 17 Which statement about boiling and evaporation is correct?
 - A Boiling can only occur at the surface of a liquid.
 - **B** Evaporation can only occur at a fixed temperature.
 - **C** Only boiling involves a change of phase.
 - **D** When some of a liquid evaporates, the rest of the liquid becomes cooler.

Space for working