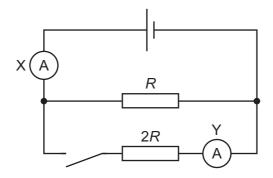
28 Interference fringes of separation x are observed on a screen at a distance of 1.00 m from a double slit that is illuminated by yellow light of wavelength 600 nm.

At which distance from the double slit would interference fringes of the same separation x be observed when using blue light of wavelength 400 nm?

- **A** 0.33 m
- **B** 0.67 m
- **C** 0.75 m
- **D** 1.50 m
- 29 What is the definition of potential difference across a component?
 - A energy transferred per unit charge
 - **B** energy transferred per unit current
 - C energy transferred per unit distance
 - D energy transferred per unit time
- **30** The diagram shows a cell of negligible internal resistance connected to a switch and two resistors of resistances *R* and 2*R*.



The circuit also contains two ammeters X and Y.

The reading on X is 4.0 A when the switch is open.

What are the readings on X and Y after the switch is closed?

	reading on X/A	reading on Y/A
Α	4.0	1.3
В	4.0	2.7
С	6.0	2.0
D	6.0	4.0