

- 9 In an experiment, laser light is shone through a diffraction grating so that a series of bright dots appears on a screen. The equation $n\lambda = d \sin \theta$ can be used to determine the wavelength of the laser light.

Which of the following is a **correct** description of how the experiment should be performed?

- ☐ A The angle θ is measured using a protractor.
- ☐ B The diffraction grating is set up so that it is parallel to the laser light beam.
- ☐ C The diffraction grating is set up so that it is parallel to the screen.
- ☐ D The distance between the bright dots is measured with a micrometer.

(Total for Question 9 = 1 mark)