

SECTION A**Answer ALL questions.**

For questions 1–10, in Section A, select one answer from A to D and put a cross in the box ☐. If you change your mind, put a line through the box ☒ and then mark your new answer with a cross ☐.

- 1** The formula for a diffraction grating in the list of equations is $n\lambda = d \sin \theta$.

Which of the following quantities does not have units?

- ☐ **A** n
- ☐ **B** λ
- ☐ **C** d
- ☐ **D** θ

(Total for Question 1 = 1 mark)