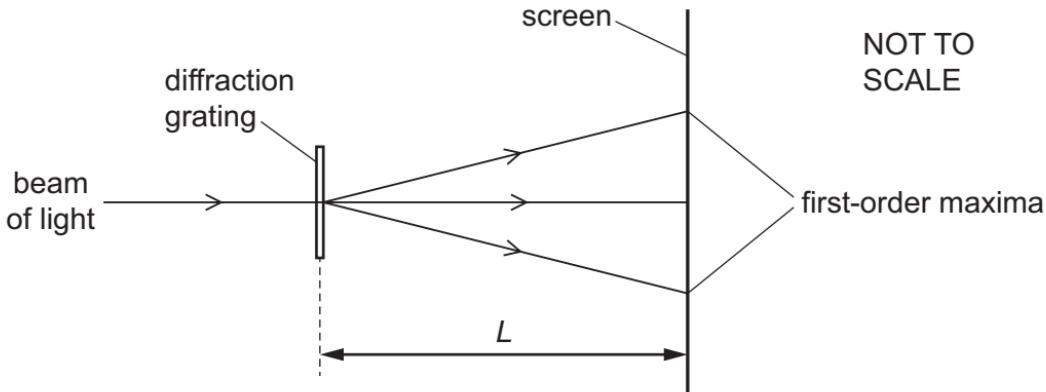


- 29 The diagram shows a screen that is a distance L from a diffraction grating. The grating has a total number of N lines. Any two adjacent lines are a distance d apart. A beam of parallel light of wavelength λ is incident normally on the grating.



Which quantities affect the distance between the first-order diffraction maxima on the screen?

	d	λ	L	N	
A	✓	✓	✓	✗	key
B	✓	✓	✗	✗	✓ = affects the distance
C	✓	✗	✓	✓	✗ = does not affect the distance
D	✗	✓	✗	✓	