

**29** Monochromatic light of frequency  $f$  is incident on a diffraction grating of line spacing  $d$ . The speed of light is  $c$ .

Which expression can be used to determine the highest order of intensity maximum produced by the grating?

**A**  $n = \frac{d}{cf}$

**B**  $n = \frac{df}{c}$

**C**  $n = \frac{dc}{f}$

**D**  $n = \frac{c}{df}$