**20** Two point sources of light at a fixed distance apart emit monochromatic light of wavelength $\lambda$. An observer views the light sources with a telescope of aperture size *d* at a distance *D* from the light sources.

Which combination of $\lambda$, *d* and *D* would give the observer the best setting to resolve the light sources?

| | $\lambda$ | *d* | *D* |
|---|---|---|---|
| **A** | shorter | larger | nearer |
| **B** | shorter | smaller | nearer |
| **C** | shorter | larger | further |
| **D** | longer | smaller | further |