

Answer on question #51686, Physics, Optics

Question 15 How far from a magnifying glass do you place an object to view it? a. closer than the focal length b. distance equal to the focal length c. greater than the focal length but less than twice the focal length d. at twice the focal length

16 Telescopes that use mirrors as the objectives are known as ——— a. refractors

- b. reflectors
- c. Galilean telescopes
- d. terrestrial telescopes

17 The property of light waves that determines its brightness is its ———

- a. wavelength
- b. velocity
- c. frequency
- d. amplitude

18 The speed of light in glass is approximately ———- that in air a. 100 times faster than

- b. 100 times slower than
- c. 50 per cent faster than
- d. 33 percent slower than

19 Which of the following is NOT correct?

- a. light is a longitudinal wave
- b. light is a transverse wave
- c. light is an electromagnetic wave
- d. light can exhibit the phenomenon of polarisation

Solution 15. Answer is a. closer than the focal length

16. Answer is b. reflectors

17. Answer is c. frequency

18. Answer is d. 33 percent slower than

19. Answer is a. light is a longitudinal wave