

1. What is meant by one light year?
2. Write down the speed of light.
3. How many million kilometres will light travel in one second?
4. How many million kilometres will light travel in one minute?
5. How many million kilometres will light travel in one hour?
6. How many million kilometres will light travel in one day?
7. How many million kilometres will light travel in one year?
8. Our nearest star is proxima centauri and it is 4.2 light years from Earth.
  - i) How long does it take light to get there?
  - ii) How many kilometres is proxima centauri from earth?
9. If Voyager 1 travels at a speed of  $62,000 \text{ km hr}^{-1}$ . How many years will it take to reach alpha centauri?