

## The Scale of the Universe.

1. Sound travels at a speed of 300 metres per second. In analogy to the light year, what does 1 sound-minute equal?
  - a) The distance travelled by sound in 1 minute
  - b) The time it takes to travel 300 metres
  - c) The time delay of a sound heard 300 metres away
  - d) The speed of sound 1 minute later
2. The star Betelgeuse is about 500 light years away, if it underwent a supernova explosion today, when would we know about it?
  - a) 8 minutes
  - b) 10 years
  - c) 500 years
  - d) 500 light years
3. Which of these numbers is the largest?
  - a)  $0.3 \times 10^3$
  - b)  $3.0 \times 10^1$
  - c)  $300 \times 10^1$
  - d)  $0.03 \times 10^7$
4. How far from Earth is the nearest star?
  - a) 1 light year
  - b) 4 light years
  - c)  $1 \times 10^6$  km
  - d) 1 AU