



# LiDAR - worksheet

A laser scanner on Earth has sent a signal to the Moon at 12:00:00,00. The beam reflected from a mirror on the Moon's surface and returned to the scanner at 12:00:02,56. With the speed of light given at 300000 km/s calculate the Earth-Moon distance.

In which of the following cases the result of laser scanning will be the best and in which - the worst?

- a) Scanning during the day, with fog and after rain,
- b) Scanning at night, with dry weather, and no rain since last week,
- c) Scanning at night, with dry weather, right after rain
- d) Scanning a dry surface in the day, with fog present.

Write three disciplines, in which laser scanning is used.

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