

LATITUDE AND LONGITUDE (CONTINUED)

WITH THE NAME OF ALLAH, MOST GRACIOUS, MOST MERCIFUL.

For every 15 degrees east of the Greenwich meridian, the time will be one hour later and vice versa.

The lines of longitude through a plane of the earth can also be determined by the shadow experiment.

The sun together with the shadow also helps to measure time.

We read in Sura Yunus (ch. 10): verse 5:-

“It is he who made the sun to be a shining glory and the moon to be a light (of beauty), that you might know the number of years and the count (of time).”

As the sun rises higher and higher the shadows contract.
In places where the sun gets to the zenith at noon, there is no shadow at that time!

Al-Biruni compiled an interesting table showing the latitude and longitude of the then main cities of the world !

Worksheet

1) Do shadows become bigger as the sun rises higher and higher?

2) Would you say that Muslims of the past played a much greater role than Muslims of today in the contemplation and study of Allah (S.W.T.)’s creation? Offer a reason for your answer.
