

Answer on Question #69006 Physics / Other

Estimate the number of steps you would have to take to walk a distance equal to the circumference of the Earth.

Solution:

Let the average step length is 70 cm= 0.70 m.

Because the Earth radius is 6378 km, so number of steps

$$N = \frac{2\pi R}{l} = \frac{2 \times 3.14 \times 6378}{0.70} \approx 57220$$

Answers: 57220.

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