## Answer on Question \#68392-Physics-Other

Maria and Lucas measure their training distance with a stick, which is 5 feet and 2 inches long. The stick fits in 254 times. What is the run called in Europe? How many rounds do Maria and Lucas have to run, until they put a mile back?

## Solution

The length of the stick is

$$
l=5 \mathrm{ft.} 2 \mathrm{in} .=\left(5+\frac{2}{12}\right) f t=\frac{31}{6} f t=\frac{31}{6} 0.3048 \mathrm{~m}=1.5748 \mathrm{~m}
$$

The number of rounds is

$$
n=\frac{L}{l}=\frac{1 \text { mile }}{1.5748 \mathrm{~m}}=\frac{1609 \mathrm{~m}}{1.5748 \mathrm{~m}} \approx 1022 .
$$

