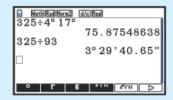
Example 14 Self Tutor

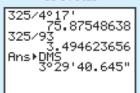
A car is travelling a distance of 325 km.

- a Find its average speed if the trip takes 4 h 17 min.
- **b** Find the time taken if the average speed is  $93 \text{ km h}^{-1}$ .

## Casio fx-CG20



## TI-84 Plus



## TI-nspire



$$= \frac{\text{distance travelled}}{\text{time taken}}$$
$$= \frac{325 \text{ km}}{4 \text{ h } 17 \text{ min}}$$
$$\approx 75.9 \text{ km h}^{-1}$$

$$= \frac{\text{distance travelled}}{\text{average speed}}$$
$$= \frac{325 \text{ km}}{93 \text{ km h}^{-1}}$$
$$\approx 3 \text{ h } 29 \text{ min } 41 \text{ s}$$



## Example 16



Suburb A covers 6.3 km<sup>2</sup> and has a population of 28 700 people. Suburb B covers 3.9 km<sup>2</sup> and has a population of 16 100 people. Which suburb is more heavily populated?

Suburb A has  $\frac{28\,700~\text{people}}{6.3~\text{km}^2} pprox 4556~\text{people per km}^2.$ 

Suburb B has  $\frac{16\,100~\text{people}}{3.9~\text{km}^2} \approx 4128~\text{people per km}^2.$ 

: suburb A is more heavily populated.