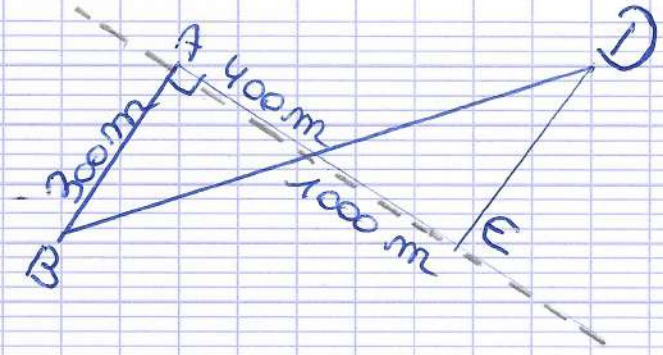

Source : Manuel Transmath, cycle 4
Nathan 2016
Exercice 10 page 533

* Pythagore : $BC^2 = AB^2 + AC^2$

$BC^2 = 300^2 + 400^2 = 250\,000$

$BC = 500$ m

Thalès : $\frac{CA}{CE} = \frac{CB}{CD} \quad \frac{AB}{ED}$

$\frac{400}{1000} = \frac{500}{CD}$ $\quad CD = \frac{500 \times 1000}{400} = 1250$ m

$\frac{400}{1000} = \frac{300}{DE}$ $\quad DE = \frac{300 \times 1000}{400} = 750$ m

Total : $AB + BC + CD + DE = 300 + 500 + 1250 + 750$

$= 2800$ m

$= 2,8$ Km