

PREMIERS ELEMENTS DE GEOMETRIE PRATIQUE

1. Un homme qui marche à raison de 4 milles à l'heure met 3 minutes à faire le tour d'un jardin carré. Quelle est la diagonale du jardin?

Solution : $(4 \div 60) \times 3 = \frac{1}{5}$ de mille le périmètre du jardin.

$\frac{1}{5}$ de mille = $\frac{1}{5}$ de 5280 pieds = 1056 pieds.

$1056 \div 4 = 264$, le côté du carré.

$264^2 = 69696$.

$69696 \times 2 = 139392$.

La racine carrée de 139392 = 373 + pieds. *Rép.*

2. L'hypoténuse d'un triangle rectangle est de 55 pieds et un des deux autres côtés est égal aux $\frac{3}{4}$ de l'autre: quels sont les autres côtés?

Solution : Soit $4x$ le plus grand des autres côtés, alors $3x$ le plus petit.

$(4x)^2 + (3x)^2 = 55^2$

$16x^2 + 9x^2 = 3025$.

$25x^2 = 3025$.

$x^2 = 121$.

$x = 11$

$3x = 11 \times 3 = 33$. *Rép.*

$4x = 11 \times 4 = 44$. *Rép.*

LANGUE ANGLAISE

Composition and Dictation

HONESTY REWARDED

PART I.—THE COMPLAINT

A farmer who was one of Lord Fitzwilliam's tenants called on him one day to complain of the damage done to his young wheat by the horses, whenever his lordship's hounds met in a certain field near Coombe Wood. He said the ground had been so badly cut up in places that he could hardly expect to get a crop at all. Lord Fitzwilliam said he knew that a good deal of damage had been done, for which he was very sorry; and asked how much money he thought would cover his loss. The farmer said he thought fifty pounds would hardly be too much. His lordship paid the money; and the farmer thanked him and went away.

PART II.—THE HONEST FARMER.

When harvest time came, however, the farmer found the trampled corn had grown and was even stronger and richer than the rest of the crop.

He went again to Lord Fitzwilliam. "My Lord," said he, "some time ago I called on you to complain about my wheat in the field, near Coombe