Answer on Question #47408 – Math – Geometry

Leopoldo arranges 10 square stepping stones. The area of the arrangement is 1440 square feet. What would it cost Leopold to put decorative fencing along the top and bottom lengths of the fence costs $2.25 per foot?

Solution:

$\mathrm{A} = 1440\ \mathrm{ft}^2 - \text{area of the arrangement;}$

$\mathrm{N} = 10 - \text{number of stepping stones;}$

$\mathrm{p} = 2.25\frac{\$}{\mathrm{ft}} - \text{cost of the fence;}$

Fomrula for the final cost:

$$\mathrm{C} = \frac{\text{area}}{\text{number of stones}} \cdot \text{price} = \frac{\mathrm{A}}{\mathrm{N}} \cdot \mathrm{p} = \frac{1440\ \mathrm{ft}^2}{10} \cdot 2.25\frac{\$}{\mathrm{ft}} = 324\$.$$

Answer: final cost is equal to $324\$$.