Question

A machine grids 2/7 pounds of spices in 1/3 second. What is the machine's rate of grinding spices in pounds per second?

Solution

2/7 pounds of spices - 1/3 second

X pounds of spices   -   1 second.

Ratio:

$X = \frac{(2/7)*1}{1/3} = \frac{2}{7} : \frac{1}{3} = \frac{2}{7} \cdot \frac{3}{1} = \frac{6}{7}$ (pounds of spices per second)

Answer:

The machine's rate of grinding spices is 6/7 pounds of spices per second.