

Answer on Question #69863 – Math – Algebra

Question

A recipe for pizza calls for 3 teaspoons of salt for every 4 cups of flour. How many teaspoons of salt will be needed for 28 cups of flour?

Solution

Let's set up a proportion:

$$\begin{aligned}3 \text{ t. sp.} &\sim 4 \text{ cups} \\x \text{ t. sp.} &\sim 28 \text{ cups}\end{aligned}$$

Now let's express x in terms of given data:

$$3 \text{ t. sp.} \times 28 \text{ cups} = 4 \text{ cups} \times x \text{ t. sp.} \rightarrow x = \frac{3 \times 28}{4} = 21 \text{ (t. sp.)}$$

Answer:

21 teaspoons of salt will be needed.